

Satellite[®] M40/M45 User's Guide

If you need assistance:

- ❖ Toshiba's Support Website
pcsupport.toshiba.com
- ❖ Toshiba Global Support Centre
Calling within the United States (800) 457-7777
Calling from outside the United States (949) 859-4273

For more information, see “If Something Goes Wrong” on page 168 in this guide.

▲ WARNING

Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm. ***Wash hands after handling.***

Model: Satellite® M40/M45

Recordable and/or ReWritable Drive(s) and Associated Software Warranty

The computer system you purchased may include Recordable and/or ReWritable optical media drive(s) and associated software, among the most advanced data storage technologies available. As with any new technology, you must read and follow all set-up and usage instructions in the applicable user guides and/or manuals enclosed or provided electronically. If you fail to do so, this product may not function properly and you may lose data or suffer other damage. TOSHIBA AMERICA INFORMATION SYSTEMS, INC. ("TOSHIBA"), ITS AFFILIATES AND SUPPLIERS DO NOT WARRANT THAT OPERATION OF THE PRODUCT WILL BE UNINTERRUPTED OR ERROR FREE. YOU AGREE THAT TOSHIBA, ITS AFFILIATES AND SUPPLIERS SHALL HAVE NO RESPONSIBILITY FOR DAMAGE TO OR LOSS OF ANY BUSINESS, PROFITS, PROGRAMS, DATA, NETWORK SYSTEMS OR REMOVABLE STORAGE MEDIA ARISING OUT OF OR RESULTING FROM THE USE OF THE PRODUCT, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

Protection of Stored Data

For your important data, please make periodic back-up copies of all the data stored on the hard disk or other storage devices as a precaution against possible failures, alteration, or loss of the data. **IF YOUR DATA IS ALTERED OR LOST DUE TO ANY TROUBLE, FAILURE OR MALFUNCTION OF THE HARD DISK DRIVE OR OTHER STORAGE DEVICES AND THE DATA CANNOT BE RECOVERED, TOSHIBA SHALL NOT BE LIABLE FOR ANY DAMAGE OR LOSS OF DATA, OR ANY OTHER DAMAGE RESULTING THEREFROM. WHEN COPYING OR TRANSFERRING YOUR DATA, PLEASE BE SURE TO CONFIRM WHETHER THE DATA HAS BEEN SUCCESSFULLY COPIED OR TRANSFERRED. TOSHIBA DISCLAIMS ANY LIABILITY FOR THE FAILURE TO COPY OR TRANSFER THE DATA CORRECTLY.**

Critical Applications

The computer you have purchased is not designed for any “critical applications.” “Critical applications” means life support systems, medical applications, connections to implanted medical devices, commercial transportation, nuclear facilities or systems or any other applications where product failure could lead to injury to persons or loss of life or catastrophic property damage.

ACCORDINGLY, TOSHIBA, ITS AFFILIATES AND SUPPLIERS DISCLAIM ANY AND ALL LIABILITY ARISING OUT OF THE USE OF THE COMPUTER PRODUCTS IN ANY CRITICAL APPLICATIONS. IF YOU USE THE COMPUTER PRODUCTS IN A CRITICAL APPLICATION, YOU, AND NOT TOSHIBA, ASSUME FULL RESPONSIBILITY FOR SUCH USE.

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, it 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 to 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.

NOTE

Only Peripherals complying with the FCC Class B limits may be attached to this equipment. Operation with noncompliant 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 parallel port, monitor port, USB port, PS/2 port®, i.LINK® port and microphone jack. Changes or modifications made to this equipment not expressly approved by Toshiba or parties authorized by Toshiba could void the user's authority to operate the equipment.

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

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

Contact either:

- ❖ Toshiba's Support Website at pcsupport.toshiba.com.
- ❖ Or call the Toshiba Global Support Centre:
Within the United States at (800) 457-7777
Outside the United States at (949) 859-4273

Industry Canada requirement

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

FCC requirements

The following information is pursuant to FCC CFR 47, Part 68 and refers to internal modems.

This equipment complies with Part 68 of the FCC rules. On the bottom of this equipment is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If requested, the information must be provided to the telephone company.

The modem connects to the telephone line by means of a standard jack called the USOC RJ11C.

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC part 68 rules and requirements adopted by the ACTA. It is designed to be connected to a compatible modular jack that is also compliant.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAAEQ##TXXXX. The digits represented by the ## are the REN without a

decimal point (e.g., 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

Telephone Company Procedures

The goal of the telephone company is to provide you with the best service it can. In order to do this, it may occasionally be necessary for them to make changes in their equipment, operations or procedures. If these changes might affect your service or the operation of your equipment, the telephone company will give you notice, in writing, to allow you to make any changes necessary to maintain uninterrupted service.

If Problems Arise

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advanced notice is not practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

If trouble is experienced with this equipment, for repair or limited warranty information, please contact Toshiba Corporation, Toshiba America Information Systems, Inc. or an authorized representative of Toshiba, or the Toshiba Support Centre within the United States at (800) 457-7777 or Outside the United States at (949) 859-4273. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

Disconnection

If you should ever decide to permanently disconnect your modem from its present line, please call the telephone company and let them know of this change.

Fax Branding

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

provided may not be a 900 number or any other number for which charges exceed local or long-distance transmission charges.)

In order to program this information into your fax transmission, refer to the fax software instructions installed on this computer.

Alarm Equipment

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this equipment does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

Instructions for IC CS-03 Certified Equipment

- 1 **NOTICE:** The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

- 2 The user manual of analog equipment must contain the equipment's Ringer Equivalence Number (REN) and an explanation notice similar to the following:

The Ringer Equivalence Number (REN) of this device can be found on the label affixed to your computer.

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

- 3 The standard connecting arrangement (telephone jack type) for this equipment is jack type(s): USOC RJ11C.

Wireless Interoperability

The TOSHIBA Wireless LAN Mini PCI Card products are designed to be interoperable with any wireless LAN product that is based on Direct Sequence Spread Spectrum (DSSS) radio technology, and is compliant to:

- ❖ The IEEE 802.11 Standard on Wireless LANs (Revision A/B/G), as defined and approved by the Institute of Electrical and Electronics Engineers.
- ❖ The Wireless Fidelity (Wi-Fi) certification as defined by the Wi-Fi Alliance. The “Wi-Fi CERTIFIED” logo is a certification mark of the Wi-Fi Alliance.

CAUTION

Bluetooth[®] and Wireless LAN devices operate within the same radio frequency range and may interfere with one another. If you use *Bluetooth* and Wireless LAN devices simultaneously, you may occasionally experience a less than optimal network performance or even lose your network connection.

If you should experience any such problem, immediately turn off your *Bluetooth* or Wireless LAN device.

Please contact Toshiba PC product support on Web site <http://www.toshiba-europe.com/computers/tnt/bluetooth.htm> in Europe or pcsupport.toshiba.com in the United States for more information.

CAUTION

This device is restricted to indoor use due to its operation in the 5.15 GHz to 5.25 GHz frequency range.

Wireless LAN and your Health

Wireless LAN products, like other radio devices, emit radio frequency electromagnetic energy. The level of energy emitted by Wireless LAN devices however is far much less than the electromagnetic energy emitted by wireless devices like for example mobile phones.

Because Wireless LAN products operate within the guidelines found in radio frequency safety standards and recommendations, TOSHIBA believes Wireless LAN is safe for use by consumers. These standards and recommendations reflect the consensus of the scientific 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 LAN may be restricted by the proprietor of the building or responsible representatives of the organization. These situations may for example include:

- ❖ Using the Wireless LAN equipment on board 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 LAN device prior to turning on the equipment.

Regulatory Information

The TOSHIBA Wireless LAN Mini PCI Card 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 device complies with the following radio frequency and safety standards.

Canada – Industry Canada (IC)

This device complies with RSS 210 of Industry Canada.

CAUTION

The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's Web site www.hc-sc.gc.ca/rpb. The RF device shall not be co-located with any other transmitter that has not been tested with this device.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.

L'utilisation de ce dispositif est autorisée seulement aux conditions suivantes: (1) il ne doit pas produire de brouillage et (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

The term "IC" before the equipment certification number only signifies that the Industry Canada technical specifications were met.

To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

Pour empêcher que cet appareil cause du brouillage au service faisant l'objet d'une licence, il doit être utilisé à l'intérieur et devrait être placé loin des fenêtres afin de fournir un écran de blindage maximal. Si le matériel (ou son antenne d'émission) est installé à l'extérieur, il doit faire l'objet d'une licence.

CAUTION

This device is restricted to indoor use due to its operation in the 5.15 GHz to 5.25 GHz frequency range. Industry Canada requires this product to be used indoors for frequency range 5.15 GHz to 5.25 GHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems.

High power radars are allocated as primary users of the 5.25 GHz to 5.35 GHz and 5.65 GHz to 5.85 GHz bands. These radar stations can cause interference with and/or damage this device.

Europe – EU Declaration of Conformity

- ❖ This device complies with the essential requirements of the R&TTE Directive 1999/5/EC with essential test suites as per standards:
 - EN 60950 Safety of Information Technology equipment.
 - ETS 300 328 Technical requirements for radio equipment.
 - ETS 300 826 General EMC requirements for radio equipment.

English:	Hereby, TOSHIBA Corp. Digital Media Network Company, declares that this Radio LAN device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
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Finnish:	Valmistaja TOSHIBA Corp. Digital Media Network Company vakuuttaa täten että Radio LAN device tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Dutch:	Hierbij verklaart TOSHIBA Corp. Digital Media Network Company dat het toestel Radio LAN device in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
	Bij deze TOSHIBA Corp. Digital Media Network Company dat deze Radio LAN device voldoet aan de essentiële eisen en aan de overige relevante bepalingen van Richtlijn 1999/5/EC.
French:	Par la présente TOSHIBA Corp. Digital Media Network Company déclare que l'appareil Radio LAN device est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
	Par la présente, TOSHIBA Corp. Digital Media Network Company déclare que ce Radio LAN device est conforme aux exigences essentielles et aux autres dispositions de la directive 1999/5/CE qui lui sont applicables.
Swedish:	Härmed intygar TOSHIBA Corp. Digital Media Network Company att denna Radio LAN device står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.
Danish:	Undertegnede TOSHIBA Corp. Digital Media Network Company erklærer herved, at følgende udstyr Radio LAN device overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF
German:	Hiermit erkläre TOSHIBA Corp. Digital Media Network Company, dass sich dieser/diese/dieses Radio LAN device in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 1999/5/EG befindet. (BMW)
	Hiermit erkläre TOSHIBA Corp. Digital Media Network Company die Übereinstimmung des Gerätes Radio LAN device mit den grundlegenden Anforderungen und den anderen relevanten Festlegungen der Richtlinie 1999/5/EG. (Wien)
Greek:	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ ΤΟSHIBA Corp. Digital Media Network Company ΔΗΛΩΝΕΙ ΟΤΙ Radio LAN device ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ
Italian:	Con la presente TOSHIBA Corp. Digital Media Network Company dichiara che questo Radio LAN device è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

Spanish:	Por medio de la presente TOSHIBA Corp. Digital Media Network Company declara que el Radio LAN device cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
Portuguese:	TOSHIBA Corp. Digital Media Network Company declara que este Radio LAN device está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.

USA – Federal Communications Commission (FCC)

This device complies with Part 15 of FCC Rules. Operation of the devices in a Wireless LAN System is subject to the following two conditions:

- ❖ This device may not cause harmful interference.
- ❖ This device must accept any interference that may cause undesired operation.

TOSHIBA is not responsible for any radio or television interference caused by unauthorized modification of the devices included with this TOSHIBA Wireless LAN Mini PCI Card, or the substitution or attachment of connecting cables and equipment other than specified by TOSHIBA.

The correction of interference caused by such unauthorized modification, substitution or attachment will be the responsibility of the user.

CAUTION

Exposure to Radio Frequency Radiation

The radiated output power of the TOSHIBA Wireless LAN Mini PCI Card is far below the FCC radio frequency exposure limits. Nevertheless, the TOSHIBA Wireless LAN Mini PCI Card shall be used in such a manner that the potential for human contact during normal operation is minimized. In normal operating configuration, the LCD in the upright position, the distance between the antenna and the user should not be less than 20 cm. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. Antenna(s) used in 5.15 GHz to 5.25 GHz frequency band must be integral antenna which provide no access to the end user.

Refer to the Regulatory Statements as identified in the documentation that comes with those products for additional information.

CAUTION**Radio Frequency Interference Requirements**

This device is restricted to indoor use due to its operation in the 5.15 GHz to 5.25 GHz frequency range. FCC requires this product to be used indoors for frequency range 5.15 GHz to 5.25 GHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems.

High power radars are allocated as primary users of the 5.25 GHz to 5.35 GHz and 5.65 GHz to 5.85 GHz bands. These radar stations can cause interference with and/or damage this device.

NOTE

The above Caution information applies to products that operate with an 802.11a device.

Taiwan

Article 14	Unless approved, for any model accredited low power radio frequency electric machinery, any company, trader or user shall not change the frequency, increase the power or change the features and functions of the original design.
Article 17	Any use of low power radio frequency electric machinery shall not affect aviation safety and interfere with legal communications. In the event interference is caused, the use of such electric machinery shall be immediately discontinued. Operation of such products can be resumed only when they are modified and can no longer cause interference.

The legal communications mentioned in the above item refer to radio communications operated in accordance with telecommunication laws and regulations.

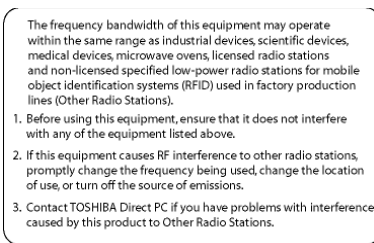
Low power radio frequency electric machinery shall resist against interference from legal communications or from industrial, scientific and medical radio emission electric machinery.

Using this Equipment in Japan

In Japan, the frequency bandwidth of 2,400 MHz to 2,483.5 MHz 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).

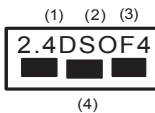
1. Sticker

Please put the following sticker on devices incorporating this product.



2. Indication

The indication shown below appears on this equipment.



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

It is possible to avoid the band of mobile object identification systems.

3. TOSHIBA Direct PC

Monday – Friday: 10:00 – 17:00

Toll Free Tel: 0120-13-1100

Direct Dial: 03-3457-5916

Fax: 03-5444-9450

Device Authorization

This device obtains the Technical Regulation Conformity Certification and the Technical Conditions Compliance Approval, and it belongs to the device class of radio equipment of low-power data communication system radio station stipulated in the Radio Law and the Telecommunications Business Law of Japan.

The Name of the radio equipment: refer to the equipment label provided on the computer

JAPAN APPROVALS INSTITUTE FOR TELECOMMUNICATIONS
EQUIPMENT

Approval Number: D01-1128JP

TELECOM ENGINEERING CENTER Approval Number: 03NY.A0018,
03GZDA0017

The following restrictions apply:

- ❖ Do not disassemble or modify the device.
- ❖ Do not install the embedded wireless module into other device.
- ❖ 5.17 GHz to 5.23 GHz for indoor use only.

Radio approvals for wireless devices

NOTE

The following information is dependent on what type of wireless device is in your computer.

Approved Countries/Regions for use for the Atheros AR5BMB-43/44 and AR5BMB5 Mini PCI Wireless network adapters

This equipment is approved to the radio standard by the countries/regions in the following table.

CAUTION

Do not use this equipment except in the countries/regions in the following table.

NOTE

This device works on passive scan only.

A peer-to-peer mode is not available in 802.11a and Turbo Mode.

802.11b (2.4 GHz)

Australia	Austria	Belgium
Canada	Denmark	Finland
France	Germany	Greece
Ireland	Italy	Liechtenstein
Luxembourg	Netherlands	New Zealand
Norway	Portugal	Sweden
Switzerland	UK	USA

Europe - Restrictions for use of 2.4 GHz Frequencies in European Community Countries

België/ Belgique:	For private usage outside buildings across public grounds over less than 300m no special registration with IBPT/BIPT is required. Registration to IBPT/BIPT is required for private usage outside buildings across public grounds over more than 300m. For registration and license please contact IBPT/BIPT.
	Voor privé-gebruik buiten gebouw over publieke grond over afstand kleiner dan 300m geen registratie bij BIPT/IBPT nodig; voor gebruik over afstand groter dan 300m is wel registratie bij BIPT/IBPT nodig. Voor registratie of licentie kunt u contact opnemen met BIPT.
	Dans le cas d'une utilisation privée, à l'extérieur d'un bâtiment, au-dessus d'un espace public, aucun enregistrement n'est nécessaire pour une distance de moins de 300m. Pour une distance supérieure à 300m un enregistrement auprès de l'IBPT est requise. Pour les enregistrements et licences, veuillez contacter l'IBPT.
Deutschland:	License required for outdoor installations. Check with reseller for procedure to follow.
	Anmeldung im Outdoor-Bereich notwendig, aber nicht genehmigungspflichtig. Bitte mit Händler die Vorgehensweise abstimmen.
France:	Restricted frequency band: only channels 1 to 7 (2400 MHz and 2454 MHz respectively) may be used outdoors in France. Please contact A.R.T. (http://www.art-telecom.fr) for applicable procedures to follow.
	Bande de fréquence restreinte: seuls les canaux 1- 7 (2400 et 2454 MHz respectivement) doivent être utilisés endroits extérieur en France. Vous pouvez contacter l'Autorité de Régulation des Télécommunications (http://www.art-telecom.fr) pour la procédure à suivre.
Italia:	License required for indoor use. Use with outdoor installations not allowed.

	E' necessaria la concessione ministeriale anche per l'uso interno. Verificare con i rivenditori la procedura da seguire.
Nederland:	License required for outdoor installations. Check with reseller for procedure to follow.
	Licentie verplicht voor gebruik met buitenantennes. Neem contact op met verkoper voor juiste procedure.

802.11a (5 GHz)

Australia	Austria	Belgium
Canada	Denmark	Finland
France	Germany	Greece
Ireland	Italy	Liechtenstein
Luxembourg	Netherlands	New Zealand
Norway	Portugal	Sweden
Switzerland	UK	USA

Turbo Mode (5 GHz)

Canada	USA	
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Europe - Restrictions for use of 5 GHz Frequencies in European Community Countries

European Community Countries	5150-5250 MHz Channels: 36, 40, 44, 48 Indoor Only	5250-5350 MHz Channels: 52, 56, 60, 64 Indoor Only	5470-5725 MHz Channels: 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140 Indoor/Outdoor
Austria	O	x	x
Belgium, France, Switzerland/Liechtenstein	O	O	x
Denmark, Finland, Germany, Greece, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Sweden, UK	O	O	O
Iceland, Spain	O	O	O

O: allowed x: forbidden

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- ❖ To remain in conformance with European spectrum usage laws for Wireless LAN operation, the above 2.4 GHz and 5 GHz channel limitations apply. The user should use the wireless LAN utility to check the current channel of operation. If operation is occurring outside of the allowable frequencies as listed above, the user must cease operating the Wireless LAN at that location and consult the local technical support staff responsible for the wireless network.
 - ❖ The 5 GHz Turbo mode feature is not allowed for operation in any European Community country.
 - ❖ This device must not be operated in ad-hoc mode using channels in the 5 GHz bands in the European Community. Ad-hoc mode provides a direct communication between two client devices without a Wireless LAN Access Point.
 - ❖ This device must be used with Access Points that have employed and activated a radar detection feature required for European Community operation in the 5 GHz bands. This device will operate under the control of the Access Point in order to avoid operating on a channel occupied by any radar system in the area. The presence of nearby radar operation may result in temporary interruption of operation of this device. The Access Point's radar detection feature will automatically restart operation on a channel free of radar. You may consult with the local technical support staff responsible for the wireless network to ensure the Access Point device(s) are properly configured for European Community operation.

Approved Countries/Regions for use for the Atheros AR5001X Mini PCI Wireless network adapter

This equipment is approved to the radio standard by the countries/regions in the following table.

CAUTION

Do not use this equipment except in the countries/regions in the following table.

NOTE

This device works on passive scan only.

A peer-to-peer mode is not available in 802.11a and Turbo Mode.

802.11b (2.4 GHz)

Australia	Austria	Belgium
Canada	Denmark	Finland
France	Germany	Greece
Ireland	Italy	Liechtenstein
Luxembourg	Netherlands	New Zealand
Norway	Portugal	Sweden
Switzerland	UK	USA

802.11a (5 GHz)

Australia	Austria	Belgium
Canada	Denmark	Finland
France	Germany	Greece
Ireland	Italy	Liechtenstein
Luxembourg	Netherlands	New Zealand
Norway	Portugal	Sweden
Switzerland	UK	USA

Turbo Mode (5 GHz)

Canada	USA	
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Approved Countries/Regions for use for the Intel® PRO/ Wireless LAN 2100 3B Mini PCI Adapter

This equipment is approved to the radio standard by the countries/regions in the following table.

CAUTION

Do not use this equipment except in the countries/regions in the following table.

Argentina	Australia	Austria
Belgium	Brazil	Canada
Chile	Denmark	Finland
France	Germany	Greece
Iceland	Ireland	Italy
Japan	Liechtenstein	Luxembourg
Mexico	Netherlands	New Zealand

Norway	Peru	Portugal
Singapore	Spain	Sweden
Switzerland	UK	Uruguay
USA	Venezuela	

Approved Countries/Regions for use for the Toshiba Mini PCI Wireless LAN Card

This equipment is approved to the radio standard by the countries/regions in the following table.

CAUTION Do not use this equipment except in the countries/regions in the following table.

Australia	Austria	Belgium
Canada	Denmark	Finland
France	Germany	Greece
Hong Kong	Iceland	Ireland
Italy	Japan	Liechtenstein
Luxembourg	Malaysia	Netherlands
New Zealand	Norway	Philippines
Portugal	Singapore	Spain
Sweden	Switzerland	Thailand
UK	USA	

Approved Countries/Regions for use for the INPROCOMM IPN2220 Wireless network adapter

This equipment is approved to the radio standard by the countries/regions in the following table.

CAUTION Do not use this equipment except in the countries/regions in the following table.

EU	Canada	Japan
USA	Australia	New Zealand

Bluetooth® wireless technology Interoperability

Bluetooth® Cards from TOSHIBA 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 as defined and approved by The *Bluetooth* Special Interest Group.
- ❖ Logo certification with *Bluetooth* wireless technology as defined by The *Bluetooth* Special Interest Group.

CAUTION

Bluetooth wireless technology is a new innovative technology, and TOSHIBA has not confirmed compatibility of its *Bluetooth* products with all PCs and/or equipment using *Bluetooth* wireless technology other than TOSHIBA portable computers.

Always use *Bluetooth* cards from TOSHIBA in order to enable wireless networks over two or more (up to a total of seven) TOSHIBA portable computers using these cards. Please contact TOSHIBA PC product support on Web site <http://www.toshiba-europe.com/computers/tnt/bluetooth.htm> in Europe or pcsupport.toshiba.com in the United States for more information.

When you use *Bluetooth* cards from TOSHIBA close to 2.4 GHz Wireless LAN devices, *Bluetooth* transmissions might slow down or cause errors. If you detect certain interference while you use *Bluetooth* cards from TOSHIBA, always change the frequency, move your PC to the area outside of the interference range of 2.4 GHz Wireless LAN devices (40 meters/43.74 yards or more) or stop transmitting from your PC. Please contact TOSHIBA PC product support on Web site <http://www.toshiba-europe.com/computers/tnt/bluetooth.htm> in Europe or pcsupport.toshiba.com in the United States for more information.

Bluetooth and Wireless LAN devices operate within the same radio frequency range and may interfere with one another. If you use *Bluetooth* and Wireless LAN devices simultaneously, you may occasionally experience a less than optimal network performance or even lose your network connection. If you should experience any such problem, immediately turn off either one of your *Bluetooth* or Wireless LAN. Please contact Toshiba PC product support on Web site <http://www.toshiba-europe.com/computers/tnt/bluetooth.htm> in Europe or pcsupport.toshiba.com in the United States for more information.

Bluetooth® wireless technology and your Health

The products with *Bluetooth* wireless technology, like other radio devices, emit radio frequency electromagnetic energy. The level of energy emitted by devices with *Bluetooth* wireless technology however is far much less than the electromagnetic energy emitted by wireless devices like for example mobile phones.

Because products with *Bluetooth* wireless technology operate within the guidelines found in radio frequency safety standards and recommendations, TOSHIBA believes *Bluetooth* wireless technology is 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 *Bluetooth* wireless technology may be restricted by the proprietor of the building or responsible representatives of the organization. These situations may for example include:

- ❖ Using the equipment with *Bluetooth* wireless technology on board 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 device with *Bluetooth* wireless technology prior to turning on the equipment.

Regulatory statements

This product complies with any mandatory product specification in any country/region where the product is sold. In addition, the product complies with the following:

European Union (EU) and EFTA

This equipment complies with the R&TTE directive 1999/5/EC and has been provided with the CE mark accordingly.

Canada — Industry Canada (IC)

This device complies with RSS 210 of Industry Canada.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.”

L'utilisation de ce dispositif est autorisée seulement aux conditions suivantes: (1) il ne doit pas produire de brouillage et (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

The term "IC" before the equipment certification number only signifies that the Industry Canada technical specifications were met.

CAUTION

FCC Interference Statement

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

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

Note that any changes or modifications to this equipment not expressly approved by the manufacturer may void the authorization to operate this equipment.

CAUTION

Exposure to Radio Frequency Radiation

The radiated output power of the *Bluetooth* Card from TOSHIBA is far below the FCC radio frequency exposure limits. Nevertheless, the *Bluetooth* Card from TOSHIBA shall be used in such a manner that the potential for human contact during normal operation is minimized.

In order to comply with FCC radio-frequency radiation exposure guidelines for an uncontrolled environment, the *Bluetooth* Card from TOSHIBA has to be operated while maintaining a minimum body to antenna distance of 20 cm.

Refer to the Regulatory Statements as identified in the documentation that comes with those products for additional information.

The *Bluetooth* Card from TOSHIBA is far below the FCC radio frequency exposure limits.

Nevertheless, it is advised to use the *Bluetooth* Card from TOSHIBA in such a manner that human contact during normal operation is minimized.

NOTE

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.

Taiwan

Article 14	Unless approved, for any model accredited low power radio frequency electric machinery, any company, trader or user shall not change the frequency, increase the power or change the features and functions of the original design.
Article 17	Any use of low power radio frequency electric machinery shall not affect aviation safety and interfere with legal communications. In the event interference is caused, the use of such electric machinery shall be immediately discontinued. Operation of such products can be resumed only when they are modified and can no longer cause interference.

The legal communications mentioned in the above item refer to radio communications operated in accordance with telecommunication laws and regulations.

Low power radio frequency electric machinery shall resist against interference from legal communications or from industrial, scientific and medical radio emission electric machinery.

Using this equipment in Japan

In Japan, the frequency bandwidth of 2,400 MHz to 2,483.5 MHz 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. Sticker

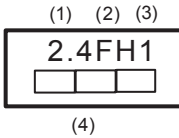
Please put the following sticker on devices incorporating this product.

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 TOSHIBA Direct PC if you have problems with interference caused by this product to Other Radio Stations.

2. Indication

The indication shown below appears on this equipment.



- 1** 2.4: This equipment uses a frequency of 2.4 GHz.
- 2** FH: This equipment uses FH-SS modulation.
- 3** 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.

3. TOSHIBA Direct PC

Monday – Friday: 10:00 – 17:00

Toll Free Tel: 0120-13-1100

Direct Dial: 03-3457-5916

Fax: 03-5444-9450

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 Radio Law of Japan.

The Name of the radio equipment: EYXF2CS

TELECOM ENGINEERING CENTER

Approval Number: 01NYDA1305

The following restrictions apply:

- ❖ Do not disassemble or modify the device.
- ❖ Do not install the embedded wireless module into other device.

DVD-ROM, multi-function drive safety instructions

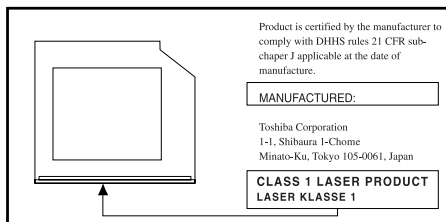
⚠ DANGER

The DVD-ROM and multi-function drives employ a laser system. To ensure proper use of this product, please read this instruction manual carefully and retain for future reference.

Never attempt to disassemble, adjust or repair a CD/DVD drive, CD-RW drive, Multi-drive or any other optical drive. You could damage the drive. You would also be exposed to laser light or other safety hazards, resulting in serious injury. Always contact an authorized Toshiba service provider, if any repair or adjustment is required.

Location of the required label

(Sample shown below. Location of the label and manufacturing information may vary.)



⚠ DANGER

This appliance contains a laser system and is classified as a CLASS 1 LASER PRODUCT. To use this model properly, read the user's guide carefully and keep it for your future reference.

Never attempt to disassemble, adjust or repair a CD/DVD drive, CD-RW drive, Multi-drive or any other optical drive. You could damage the drive. You would also be exposed to laser light or other safety hazards, resulting in serious injury. Always contact an authorized Toshiba service provider, if any repair or adjustment is required.

CLASS 1 LASER PRODUCT
LASER KLASSE 1

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All other brand and product names are trademarks or registered trademarks of their respective companies.

Computer disposal information

This product contains mercury. Disposal of this material may be regulated due to environmental considerations. For disposal, reuse or recycling information, please contact your local government or the Electronic Industries Alliance at www.eiae.org.

Contents

Introduction.....	36
This guide	37
Safety icons	38
Other icons used	39
Other documentation	39
Service options	40
Chapter 1: Getting Started.....	41
Selecting a place to work	41
Creating a computer-friendly environment.....	41
Keeping yourself comfortable	42
Precautions	42
Important information on your computer's cooling fan	45
Setting up your computer	45
Setting up your software.....	46
Registering your computer with Toshiba	47
Setting up other devices	47
Connecting to a power source	48
Charging the main battery.....	51

Using the computer for the first time	52
Opening the display panel	52
Your computer's features and specifications	53
Turning on the power	54
Adding memory (optional)	55
Installing a memory module	55
Removing a memory module	61
Using the TouchPad™	63
Scrolling with the TouchPad™	63
Control buttons	64
Disabling or enabling the TouchPad	64
Turning off the computer	65
Closing the display panel	66
Using external display devices	66
Directing the display output when you turn on the computer	67
Adjusting the quality of the external display	68
Using an external keyboard	68
Using a mouse	69
Connecting a local printer	69
Connecting a USB printer	69
Connecting a parallel printer	70
Setting up a printer	71
Connecting an optional external diskette drive	72
Connecting external speakers or headphones	73
Connecting a microphone	73
Caring for your computer	73
Cleaning the computer	74
Moving the computer	74
Using a computer lock	74

Chapter 2: Learning the Basics	76
Computing tips	76
Using the keyboard	78
Character keys	78
Making your keyboard emulate a full-size keyboard	78
Ctrl, Fn, and Alt keys	79
Function keys	79
Windows special keys	80
Overlay keys	80
Using the overlay to type numeric data	81
Starting a program	81
Starting a program from the Start menu	82
Starting a program from Windows® Explorer	82
Starting a program from the Run dialog box	83
Saving your work	84
Printing your work	87
Using the DVD-ROM or multi-function drive	88
DVD-ROM or multi-function drive components	88
CD/DVD control buttons	90
Inserting a compact disc	91
Removing a disc with the computer on	93
Removing a disc with the computer off	93
Caring for CD or DVD Discs	93
Using PC Cards	94
Hot swapping	94
Using your computer at the office	95
Backing up your work	95
Restoring your work	96
Powering down the computer	96
Using Turn Off Computer or Shut Down	97
Using Hibernation	99
Using Standby	101
Toshiba's online resources	103

Chapter 3: Mobile Computing.....	104
Toshiba's energy-saver design.....	104
Running the computer on battery power	104
Battery Notice	105
Power management	106
Using additional batteries	106
Charging batteries.....	107
Charging the main battery.....	107
Charging the RTC battery.....	108
Monitoring main battery power.....	109
Determining remaining battery power.....	111
What to do when the main battery runs low ...	112
Setting battery alarms.....	113
Conserving battery power	113
Power Profiles	114
Using a hot key to set the Power Profile	115
Changing the main battery.....	116
Removing the battery from the computer	116
Inserting a charged battery	117
Taking care of your battery	118
Safety precautions	118
Maximizing battery life	119
Disposing of used batteries	121
Traveling tips	122
Chapter 4: Exploring Your Computer's Features.....	123
Exploring the desktop	123
Finding your way around the desktop	124
Setting up for communications.....	126
Connecting the modem to a telephone line	128
Connecting your computer to a network	128
An overview of using the Internet	131
The Internet	131
The World Wide Web	131

Internet Service Providers.....	132
Connecting to the Internet	132
Surfing the Internet.....	133
Internet features.....	133
Uploading to, and downloading files from, the Internet	134
Exploring audio features	134
Playing an audio CD	134
Playing CDs using Auto-Run.....	136
Creating a CD	136
Recording sounds.....	137
Using external speakers or headphones.....	138
Inserting and removing PC Cards	139
Inserting a PC Card	139
Removing a PC Card	140
Setting up a PC Card for your computer	141
Inserting and removing the PCI Express Card.....	141
Inserting a PCI Express Card	141
Removing a PCI Express Card	142
Using the Bridge Media Adapter Slot	143
Inserting memory media.....	143
Removing memory media.....	144
Connecting your modem to a telephone line.....	144
Connecting to a phone line	145
Chapter 5: Toshiba Utilities.....	147
Fn-esse®	148
Starting Fn-esse®	148
Using the keyboard or pointing device to assign keys	150
Viewing existing key assignments.....	151
Changing or removing existing key assignments	151
TOSHIBA Assist	152

Connect.....	153
Secure.....	153
Protect & Fix.....	153
Optimize.....	153
Setting user passwords	154
Using an instant password.....	154
Setting a user password	155
Disabling a user password.....	155
Using a supervisor password.....	156
Setting a supervisor password.....	156
Deleting a supervisor password.....	157
TOSHIBA Power Saver	157
Profiles	159
Quickly creating a new power mode	159
Customizing a power mode	159
Mouse utility	160
Hotkey utility	160
TOSHIBA HW Setup	161
TOSHIBA Zooming Utility.....	162
TOSHIBA Touch and Launch utility.....	163
TOSHIBA Touch and Launch Settings.....	166
Disabling or enabling TOSHIBA Touch and Launch	167
Chapter 6: If Something Goes Wrong	168
Problems that are easy to fix	168
Problems when you turn on the computer.....	170
The Windows® operating system is not working..	172
Using Startup options to fix problems	173
Internet problems	174
The Windows® XP operating system can help you	174
Resolving a hardware conflict.....	175
A plan of action.....	175

Resolving hardware conflicts on your own	176
Fixing a problem with Device Manager	177
Memory problems	179
Power and the batteries	180
Keyboard problems.....	182
Display problems	183
Disk drive problems.....	185
DVD-ROM or multi-function drive problems...	188
Sound system problems	189
PC Card problems.....	189
Printer problems	193
Modem problems.....	194
Wireless networking problems.....	195
DVD operating problems.....	198
Develop good computing habits	201
Data and system configuration backup in	
Windows® XP	202
If you need further assistance	208
Before you contact Toshiba	208
Contacting Toshiba	209
Other Toshiba Internet Web sites	210
Toshiba's worldwide offices.....	210
Appendix A: Hot Keys.....	212
Volume Mute	212
Password security	213
Without a password	213
With a password	213
Maintaining security when the battery is	
not fully charged	214
Power usage mode	215
Standby mode.....	215
Hibernation mode	216
Display modes	217

Display brightness	217
Disabling or enabling wireless devices.....	218
Disabling or enabling the TouchPad	218
Keyboard hot keys	219
Zooming applications in/out	219
Appendix B: Power Cord/Cable Connectors.....	220
Appendix C: Using ConfigFree™ with your Toshiba Computer	221
Getting Started	222
Starting ConfigFree	222
ConfigFree Utilities	224
Connectivity Doctor	224
Search for Wireless Devices	227
Profile Settings	232
ConfigFree SUMMIT.....	236
Quick Connect.....	240
Using the Automatic Switch.....	243
Semi-Automatic Switch Feature	243
Glossary.....	245
Index.....	260

Introduction

Welcome to the world of powerful, portable, multimedia computing. With your Toshiba notebook computer, your work and entertainment can accompany you wherever you go.

You will find your operating system, Microsoft® Windows® XP Professional or Windows® XP Home, already installed on your computer. Your operating system offers exciting features, multimedia enjoyment, and easy Internet access.

NOTE

Certain Microsoft® software product(s) included with this computer may use technological measures for copy protection. IN SUCH EVENT, YOU WILL NOT BE ABLE TO USE THE PRODUCT IF YOU DO NOT FULLY COMPLY WITH THE PRODUCT ACTIVATION PROCEDURES. Product activation procedures and Microsoft's privacy policy will be detailed during initial launch of the product, or upon certain reinstallations of the software product(s) or reconfigurations of the computer, and may be completed by Internet or telephone (toll charges may apply).

Some software may differ from its retail version (if available), and may not include user manuals or all program functionality.

NOTE

The product specifications and configuration information are designed for a product Series. Your particular model may not have all the features and specifications listed or illustrated. For more detailed information about the features and specifications on your particular model, please visit Toshiba's Web site at pcsupport.toshiba.com.

While Toshiba has made every effort at the time of publication to ensure the accuracy of the information provided herein, product specifications, configurations, prices, system/component/options availability are all subject to change without notice. For the most up-to-date product information about your computer, or to stay current with the various computer software or hardware options, visit Toshiba's Web site at pcsupport.toshiba.com.

This guide

This guide introduces the computer's features. You can:

- ❖ Read the entire guide from beginning to end.
- ❖ Skim through and stop when a topic interests you.
- ❖ Use the table of contents and the index to find specific information.

Safety icons

This manual contains safety instructions that must be observed to avoid potential hazards that could result in personal injuries, damage to your equipment, or loss of data. These safety cautions have been classified according to the seriousness of the risk, and icons highlight these instructions as follows:

▲ DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

▲ WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

▲ CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in property damage.

NOTE

Provides important information.

Other icons used

Additional icons highlight other helpful or educational information:



TECHNICAL NOTE: This icon indicates technical information about the computer.



HINT: This icon indicates helpful hints and tips.



DEFINITION: This icon indicates the definition of a term used in the text.

Other documentation

Your computer comes with the following documentation:

- ❖ An electronic version of the user's guide
- ❖ It may also contain guides for other programs that may come with your system.

For accessory information, visit Toshiba's Web site at accessories.toshiba.com.

Service options

Toshiba offers a full line of optional service programs to complement its limited warranty. Toshiba's standard limited warranty, extended warranty, and service upgrade terms and conditions are available at www.warranty.toshiba.com.

To stay current on the most recent software and hardware options for your computer, and for other product information, be sure to regularly check the Toshiba Web site at pcsupport.toshiba.com.

If you have a problem or need to contact Toshiba, see “[If Something Goes Wrong](#)” on page 168.

Chapter 1

Getting Started

This chapter provides tips for working comfortably, summarizes how to connect components, and explains what to do the first time you use your notebook computer.

Selecting a place to work

Your computer is portable and designed to be used in a variety of circumstances and locations.

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 may 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.

Keeping yourself comfortable

The Toshiba Instruction Manual for Safety and Comfort, that shipped with your computer, contains helpful information for setting up your work environment and tips for working comfortably throughout the day.

Precautions

Your computer is designed to provide optimum safety and ease of use, and to withstand the rigors of travel. You should observe certain precautions to further reduce the risk of personal injury or damage to the computer.

- ❖ Avoid prolonged physical contact with the underside or surface of the computer.

▲ WARNING

Never allow any liquids to spill into any part of your computer, and never expose the computer to rain, water, seawater or moisture. Exposure to liquid or moisture can cause electric shock or fire, resulting in damage or serious injury. If any of these eventualities should accidentally occur, immediately:

1. Turn off the computer.
2. Disconnect the AC adapter from the power plug socket and computer.
3. Remove the battery pack.

Failure to follow these instructions could result in serious injury or permanent damage to the computer.

Do not turn on the power again, until you have taken the computer to an authorized service center.

▲ WARNING

If you experience discomfort while operating the computer, stop immediately and rest. Continuous operation for long periods without adequate rest may cause pain in the arms, wrists, hands, neck or other part of the body. If pain persists despite rest, consult your doctor.

▲ CAUTION

PC base and palm rest can become hot! Avoid prolonged contact to prevent heat injury to skin.

Read the enclosed Instruction Manual for Safety and Comfort.

CAUTION

Some PC Cards can become hot with prolonged use. Overheating of a PC Card can result in errors or instability in its operation.

Before you remove a PC Card, always wait for it to cool. You could get burned removing a hot PC Card.

CAUTION

Never place a heavy object on the computer and be careful not to drop a heavy object onto the computer. It could damage the computer or cause system failure.

- ❖ Never turn off the computer if a drive light indicates a drive is active.

Turning off the computer while it is reading from or writing to a disk may damage the disk, the drive, or both.

- ❖ Keep the computer and disks away from objects that generate strong magnetic fields, such as large stereo speakers.

Information on disks is stored magnetically. Placing a magnet too close to a disk can erase important files.

CAUTION

Handle discs carefully. Avoid touching the surface of the disc. Grasp it by its center hole and edge. If you handle the disc incorrectly, you could damage the disc and possibly lose data.

- ❖ Scan all new files for viruses.

This precaution is especially important for files you receive via email or download from the Internet. Occasionally, even new programs you buy from a supplier may contain a computer virus. You need a special program to check for viruses. Ask your dealer to help you.

Important information on your computer's cooling fan

Your computer may have a CPU cooling fan that cools the CPU by drawing outside air into the computer. The cooling fan may be located on the bottom of the computer.

CAUTION

To prevent possible overheating of the CPU, make sure the air intake on the cooling fan is not blocked. The fan draws in air by creating a vacuum. If the fan is blocked, it could cause the CPU to run at a lower performance level or cause the computer to shut down. Loose items such as notebook and tissue paper, plastic wrappers, or other similar materials can block the air intake, preventing air from reaching the CPU. Do not use the computer on surfaces with objects that can be drawn in by the cooling fan.

NOTE

The cooling fan location will vary depending on the computer.

Setting up your computer



TECHNICAL NOTE: You must complete all setup steps up to and including “Setting up your software” on page 46 before adding external or internal components to your computer. These components include, but are not limited to, a mouse, keyboard, printer, memory, and PC Cards.

Your computer contains a rechargeable main battery that needs to be charged before you can use it.

To use external power or to charge the battery you must attach the AC adapter. See [“Connecting to a power source” on page 48](#).

To register your computer online or to sign up for an Internet account, you must either connect the built-in modem to a telephone line or establish a Local Area Network (LAN) connection. See [“Connecting your modem to a telephone line”](#) on page 144.

Setting up your software

NOTE The names of windows displayed, and the order in which windows appear, may vary according to your software setup choices.

The first time you turn on your computer, the Setup Wizard guides you through steps to set up your software.

- 1 From the welcome screen click **Next** to enter the Setup Wizard.
- 2 Confirm acceptance of Microsoft’s End User License Agreement and click **Next**.
- 3 Select the appropriate option from the Help protect your computer screen and click **Next**.
- 4 Enter the computer name and description and click **Next** or **Skip**.
- 5 Select how your computer will connect to the Internet and click **Next**.

The computer will pause for a moment while checking for an internet connection.

If an Internet connection could not be found, a window will display the message: “An Internet connection could not be chosen.” Click **Next** to continue.

NOTE If you are connecting your computer to a network, consult your system administrator before you choose your computer name and network settings.

- 6 Follow the remaining screen prompts to complete the setup process.

Once you click the final screen, your computer restarts automatically.

Registering your computer with Toshiba

Product registration is strongly recommended, and allows Toshiba to send the Customer periodic updates, announcements, and special offers applicable to the product. Product registration can be completed during the initial start up process of your computer. If you opt not to register at that time, you can either double-click the icon on your desktop or go to the Toshiba web site at www.register.toshiba.com. Customer failure to complete Product Registration will not diminish Customer rights under this limited Warranty.

NOTE To register online, you must be connected to the Internet via your computer's modem and a voice-grade telephone line, or by a Local Area Network.

Setting up other devices

You may want to take this time to set up your printer. For more information, see “[Setting up a printer](#)” on page 71.

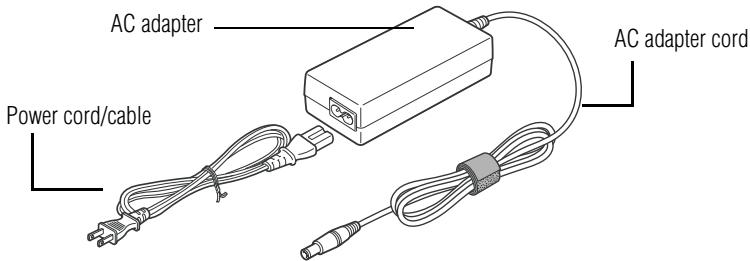
Connecting to a power source

Your computer requires power to operate. Use the power cord/cable and AC adapter to connect the computer to a live electrical outlet, or to charge the computer's battery.

▲ WARNING Never pull on a power cord/cable to remove a plug from a socket. Always grasp the plug directly. Failure to follow this instruction may damage the cord/cable, and/or result in a fire or electric shock, possibly resulting in serious injury.

▲ WARNING When you connect the AC adapter to the computer, always follow the steps in the exact order as described in the User's Guide. Connecting the power cord/cable to a live electrical outlet should be the last step; otherwise, the adapter DC output plug could 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.

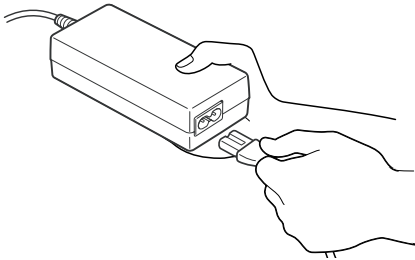
▲ CAUTION Always use the Toshiba AC adapter that was provided with your computer, or use Toshiba recommended alternate models to avoid any risk of fire or other damage to the computer. Use of an incompatible AC adapter could cause fire or damage to the computer, possibly resulting in serious injury.



Sample power cord/cable and AC adapter

To connect AC power to the computer:

- 1** Connect the power cord/cable to the AC adapter.

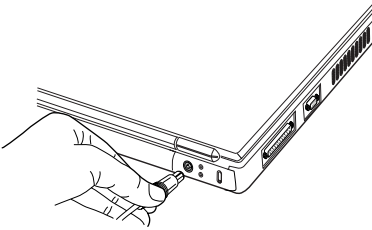


Sample connecting the power cord/cable to the AC adapter


⚠ WARNING

Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm. ***Wash hands after handling.***

-
- ⊖ ⊖ ⊖ **2** Plug the AC adapter into the DC-IN on the right side of the computer.



Sample connecting the AC adapter to the computer

- 3** Connect the power cord/cable to a live electrical outlet.
-  The AC power light on the indicator panel glows blue.

▲ WARNING

Never tamper with the cord/cable or plug; never splice or alter a cord/cable; never bend or twist a cord/cable; never place heavy objects on a cord/cable; never place a cord/cable near a heat source; never run a cord/cable through a pinch point such as a door or window; never use nails, staples or similar objects to fasten or attach cord in place; never attempt to disassemble or repair an AC adapter or a Battery Charger. Doing any of the above may damage the cables, and/or result in a fire or electric shock, possibly resulting in serious injury.

▲ WARNING

Never attempt to connect or disconnect a power plug with wet hands. Failure to follow this instruction could result in electric shock, possibly resulting in serious injury.

The computer's main battery light gives you an indication of the main battery's current charge:

- ❖ Glows amber while the battery is being charged (AC adapter connected)
- ❖ Glows blue when the battery is fully charged
- ❖ Is unlit when the main battery has discharged, the battery is not charging, or the AC adapter is not plugged into the computer or AC outlet
- ❖ Flashes amber when the main battery charge is low and it is time to recharge the main battery or plug in the AC adapter

NOTE If the AC power light flashes amber during charging, either the main battery is malfunctioning, or it is not receiving correct input from the AC power supply.

Disconnect the AC cable and remove the main battery pack. See "[Changing the main battery](#)" on page 116 for information on replacing the main battery.

Charging the main battery

Your computer came with its battery already installed. Before using the battery to power the computer, you must charge the battery.

To charge the battery, leave the computer plugged into an AC power source for at least three hours with the computer turned off. After that, the battery will be completely charged and ready to power the computer.

CAUTION

Once the battery is charged for the first time, avoid leaving the computer plugged in and turned off for more than a few hours at a time. Continuing to charge a fully charged battery can damage the battery.



TECHNICAL NOTE: When your computer is using all of the power provided by the AC Adapter to run applications, features, and devices, the recharging of the battery cannot occur. Your computer's Power Saver utility can be used to select a power level setting that reduces the power required for system operation and will allow the battery to recharge.

NOTE

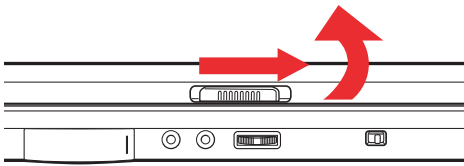
Battery life and charge time may vary depending on the applications, power management settings, and features used.

Using the computer for the first time

The computer is now ready for you to turn it on and begin using it.

Opening the display panel

- 1 Slide the display latch to the right.
- 2 Lift the display panel.



Sample opening the display panel

CAUTION

To avoid damaging the display panel, do not force it beyond the point where it moves easily, and never lift the computer by the display panel.

Small bright dots may appear on your screen display when you turn on your PC. Your display contains an extremely large number of thin-film transistors (TFT) and is manufactured using high-precision technology. Any small bright dots that may appear on your display are an intrinsic characteristic of the TFT manufacturing technology. Over a period of time, and depending on the usage of the computer, the brightness of the screen will deteriorate. This is also an intrinsic characteristic of the screen technology. When the computer is operated on battery power, the screen will dim and you may not be able to increase the brightness of the screen while on battery power.

Your computer's features and specifications

Certain notebook chassis are designed to accommodate all possible configurations for an entire product Series. Your selected model may not have all the features and specifications corresponding to all of the icons or switches shown on the notebook chassis, unless you have selected all those features.

This information applies to all the features and icons described in this guide.

Below are examples of some of the many possible icons used on your computer:

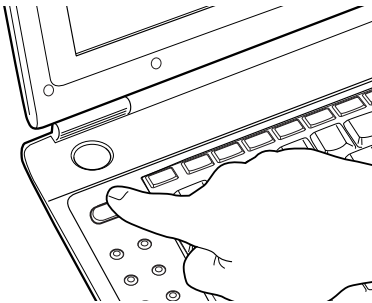


Sample system icons

Turning on the power

To turn on the computer:

- 1 Make sure any external devices (such as the AC adapter, if you plan to use AC power rather than battery power) are properly connected and ready.
- 2 Check to ensure that all drives are empty.
- 3 Press and hold the power button in until the on/off light on the system indicator panel glows blue—about one second.



Sample turning on the power

The preinstalled operating system will load automatically.

CAUTION

When you turn on the computer for the first time, do not turn off the power again until the operating system has loaded completely.

Adding memory (optional)



HINT: To purchase additional memory modules, see the accessories information packaged with your system or visit accessories.toshiba.com.

Your computer comes with enough memory to run most of today's popular applications. You may want to increase the computer's memory if you use complex software or process large amounts of data.

For more information on memory options, check the accessories information that came with your computer, or visit accessories.toshiba.com.

NOTE

Before adding external devices or memory, Toshiba recommends setting up your software. See "Setting up your software" on page 46.

Installing a memory module

Additional memory modules can be installed in the memory module slots on the base of the computer. You will need a standard Phillips No. 1 screwdriver for this procedure.

CAUTION

If you use the computer for a long time, the memory module will become hot. If this happens, let the module cool to room temperature before you replace it.

CAUTION

To avoid damaging the computer's screws, use a standard Phillips No. 1 screwdriver that is in good condition.

CAUTION Installing a memory module with the computer's power on may damage the computer, the module, or both.

The computer has two memory module slots — Slot A and Slot B. You can install one or two memory modules.

CAUTION Before you install or remove a memory module, turn off the computer using the Start menu. If you install or remove a memory module while the computer is in Standby or Hibernation mode, data will be lost.

If the computer is on, begin at step 1; otherwise, skip to step 3.

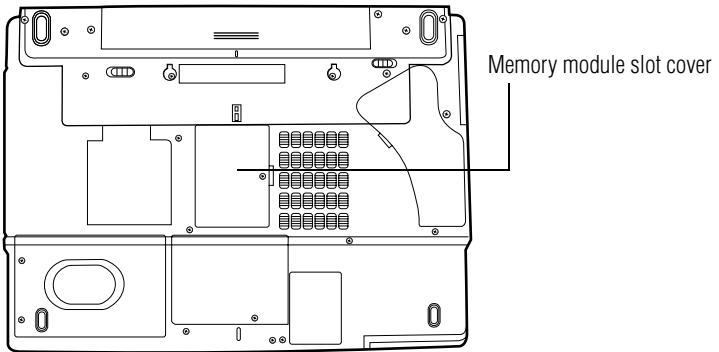
- 1 If the computer is on, click **Start, Turn off** (or Shut Down - depending on the system)

The Turn off computer window appears.

- 2 Click **Turn Off**.

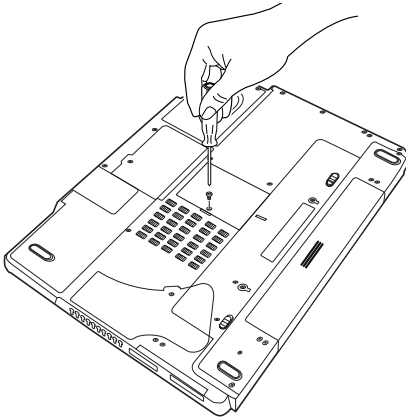
The operating system turns off the computer.

- 3 Unplug and remove any cables connected to the computer, including the AC adapter.
- 4 Remove the battery. For information on removing the battery, see [“Changing the main battery” on page 116](#).
- 5 Close the display panel and turn the computer upside down to locate the memory module slot cover.



Sample locating the memory module slot cover

- 6 Using a standard Phillips No. 1 screwdriver, unscrew the screw that secures the memory module slot cover.



Unscrewing the memory module slot cover

- 7 Remove the memory slot cover.
- 8 Place the screw and the cover in a safe place so that you can retrieve them later.

CAUTION

Static electricity can damage the memory module. Before you handle the module, touch a grounded metal surface to discharge any static electricity you may have built up.

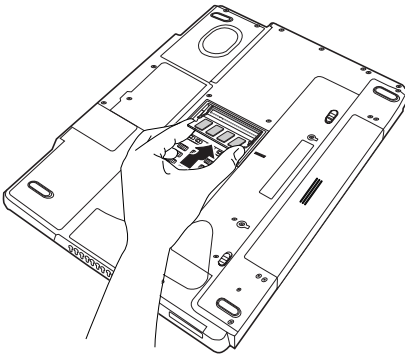
To avoid damaging the memory module, be careful not to touch its pin connector on the side you insert into the computer.

- 9 Remove the new memory module from its antistatic packaging.

CAUTION

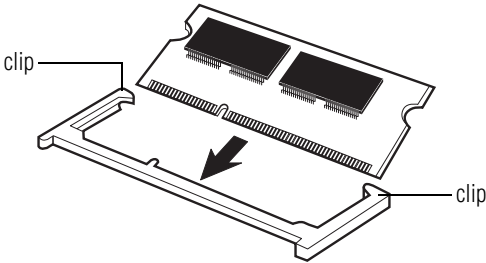
Avoid touching the connectors on the memory module or on the computer. Grease or dust on the connectors may cause memory access problems.

- 10 Insert the memory module into the socket on the underside of the computer.



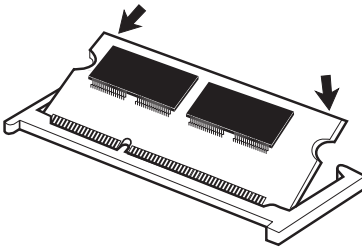
Sample inserting the memory module into the slot

- 11 Hold the memory module by its edges so that the gold connector bar faces the slot, at a slight angle to the socket.



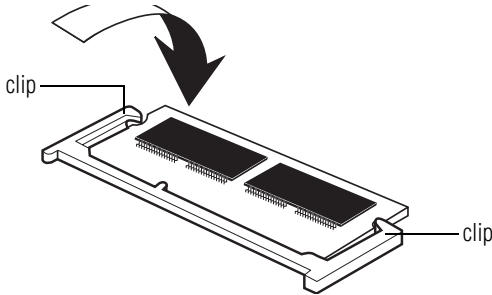
Sample inserting the memory module into the socket

- 12 Check that the module is inserted completely into the socket and lined up squarely with the socket clips.



Sample aligning the module into the socket

- 13** Gently press down on the memory module connector until the clips snap into place.



Sample pressing down on the memory module

Do not force the memory module into position. The memory module should be completely inserted into the socket and level when secured in place.

The clips on either side of the memory module snap into place when the memory module is properly inserted.

- 14** Replace the memory module slot cover and tighten the screw.
- 15** Re-insert the battery. For more information on inserting the battery, see [“Changing the main battery”](#) on page 116.
- 16** Turn the computer right side up.
- 17** Reconnect the cables.
- 18** Restart the computer.



TECHNICAL NOTE: You must have at least one memory module installed for the computer to work.

You can now continue setting up the computer. When the operating system has loaded, you can verify that the computer has recognized the additional memory module.

If you are adding an extra memory module after setting up the computer, verify that the computer has recognized it correctly as described in [“Checking total memory”](#) on page 62.

Removing a memory module

If you need to remove a memory module:

- 1 Complete steps 1–8 in [“Installing a memory module”](#) on page 55 to shut down the computer and open the memory module slot cover.

CAUTION

Do not try to remove a memory module with the computer turned on. You can damage the computer and the device.

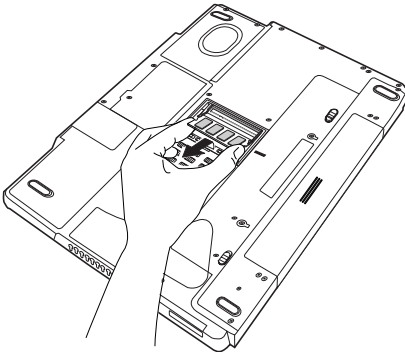
Do not remove the memory module while the computer is in Standby or Hibernation mode. The computer could hang up the next time you turn it on and data in memory will be lost. In either of the above cases, the Standby configuration will not be saved.

The following message appears when you turn on the power:

Warning: Resume Failure
Press Any Key To Continue

If the computer hangs up when you turn it on, perform the following: Press the power button and hold it down for at least ten seconds, then turn the power on again.

-
- 2 Pull the clips away from the memory module.
The memory module pops up slightly.
 - 3 Gently lift the memory module to a 45 degree angle and slide it out of the slot.



Sample removing the memory module

- 4 Replace the memory module slot cover and tighten the screw.
- 5 Turn the computer over and restart it.



TECHNICAL NOTE: You must have at least one memory module installed for the computer to work.

Checking total memory

When you add or remove a memory module, you can check that the computer has recognized the change. To do this:

- 1 Click **Start, Control Panel, Performance and Maintenance**, and then **System**.
- 2 The **General** tab view automatically appears and shows total memory.

If the computer does not recognize the memory configuration, turn off the computer, remove the memory slot cover, and make sure the memory module is seated properly, as described in step 13 of “[Installing a memory module](#)” on page 55.

Using the TouchPad™

The TouchPad, the small, smooth square cutout located in front of the keyboard, is sensitive to touch and enables you to move the cursor with the stroke of a finger. Simply move your finger on the TouchPad in the direction you would like to move the cursor:

- ❖ To move the cursor to the top of the page, push your finger forward on the TouchPad.
- ❖ To move the cursor to the bottom of the page, drag your finger toward yourself.
- ❖ To move the cursor to the right side of the page, slide your finger across the TouchPad from left to right.
- ❖ To move it to the left side, slide your finger from right to left.

NOTE

Because the TouchPad is much smaller than the display screen, moving your cursor across the screen often means having to move your finger several times across the TouchPad in the preferred direction.

Once you have positioned your cursor, you can click it into place by either double-tapping the TouchPad or clicking the control buttons.

Scrolling with the TouchPad™

There are two active regions on the TouchPad that allow you to scroll as you would with any wheel device on a mouse or trackball.

To scroll vertically, run your finger up or down along the right edge of the TouchPad. To scroll horizontally, run your finger along the bottom edge of the TouchPad. This feature can be disabled or changed in the Mouse Properties dialog box.

Control buttons

When a step instructs you to click or choose an item, move the cursor to the item, then press and release the primary (left-hand) button. To double-click, press the primary button twice in rapid succession. The primary button usually corresponds to the left mouse button.

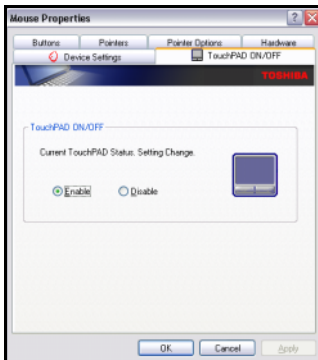
The function of the secondary (right-hand) button depends on the program you are using. It usually corresponds to the right mouse button. Check your program's documentation to find whether it uses the right mouse button.

Disabling or enabling the TouchPad

The TouchPad is enabled by default. To change the enable/disable TouchPad setting:

- 1 Click **Start**, and then **Control Panel**.
The Control Panel window appears.
- 2 Click **Printers and Other Hardware**.
- 3 Click the **Mouse** icon.
- 4 Click the **TouchPAD ON/OFF** tab.

The TouchPAD ON/OFF tab view window appears.



Sample TouchPAD ON/OFF screen

- 5 Select **Disable** or **Enable**, whichever is appropriate.
- 6 Click **Apply**.
- 7 Click **OK**.

The Mouse Properties window closes.

- 8 Close the Printers and Other Hardware window.
- 9 Close the Control Panel window.

You can also use a hot key to disable or enable the TouchPad. See “[Disabling or enabling the TouchPad](#)” on page 218.

Turning off the computer

It is a good idea to turn off your computer when you are not using it for a while.

If you are using the computer for the first time, leave the computer plugged into a power source (even though the computer is off) to fully charge the main battery. With the computer off, it may take up to three hours to recharge the main battery.

When you power down the computer, you have three options to choose from: Turn Off (or Shut down), Hibernate, and Standby. Each option has its advantages.

- ❖ Use the Shut down command if you are using the Windows XP Professional operating system and are connected to a domain server.
- ❖ If you have work in progress and are not connected to a network, use the Windows Standby or Hibernate commands to save your system settings to memory so that, when you turn on the computer again, you will automatically return to where you left off.
- ❖ To leave the computer off for a longer period, you can use the Windows Turn Off command when not connected to

a domain server or the Shut down command when connected to a domain server instead.

CAUTION

Never turn off the computer while any drive is in use. Doing so may damage the media in use and result in loss of data. For more information, see [“Powering down the computer” on page 96](#).

Closing the display panel

When you are finished, shut the computer down and close the display panel to keep dust and dirt out of the computer.

If you close the computer while it is still on, these actions will occur:

- ❖ If you have the LCD power-saver feature set, the LCD panel will automatically turn off until you open it again.
- ❖ If you have the audible warning set, the computer will beep to notify you that it is still on.
- ❖ If you have an action feature set, the computer will perform either: Nothing, Standby, Hibernate, or Turn Off (see [“Setting user passwords” on page 154](#)).

Using external display devices

Your computer comes with a built-in LCD display, but you can also connect an external display device to the available video port:

- ❖ An external monitor or projector via the RGB (monitor) port.

Before connecting an external monitor or video projector, configure your computer for the type of device you are connecting. To do this, refer to the documentation for your operating system and devices.

Connecting an external monitor or projector

You can easily attach an external monitor or projector to your computer if you need a larger screen. To do this:



- 1 Connect the monitor's video cable to the RGB (monitor) port on the left side of the computer.
- 2 Connect the device's power cable to a live electrical outlet.
- 3 Turn on the external device.
- 4 Set the display mode by pressing Fn + F5, or by configuring the Display Properties settings.

Directing the display output when you turn on the computer

Once you have connected an external display device, you can choose to use the internal display only, the external device only, or both simultaneously. The quickest way to change the display output settings is to use the display hot key (Fn + F5):

- 1 Press Fn and F5 simultaneously.
- 2 While holding down Fn, press F5 repeatedly until the setting you want takes effect. Briefly pause between pressing the F5 key to allow time for the display to change.

This hot key cycles through the settings in the following order:

- ❖ Built-in display only
 - ❖ Built-in display and external monitor simultaneously
 - ❖ External monitor only
- 3 Release the Fn key.



TECHNICAL NOTE: You can also change these settings using the Display Properties Box.

Set the option for the video controller by clicking Start, then Control Panel, Appearance and Themes, and then Display. Choose the Settings tab, click the Advanced button, select Display Device, select the applicable Monitor type, and click Apply or OK.

Adjusting the quality of the external display

To obtain the best picture quality from your television (or other video display device), you may need to adjust the video settings. See the video device documentation for additional configuration steps.



TECHNICAL NOTE: To use one of the simultaneous modes, you must set the resolution of the internal display panel to match the resolution of the external display device. The external display device must support a resolution of 800 X 600 or higher.

Using an external keyboard

If you prefer to use a full-size keyboard, you can attach one to your computer. The computer's USB ports support any USB-compatible keyboard.

Using a mouse

You may want to use a mouse instead of the computer's built-in TouchPad. You can use a USB-compatible mouse.

NOTE

After logging on to your system, the mouse cursor may move to the upper-right side of the screen. If this occurs, push the Esc or Windows key to return it to its original position.

Connecting a local printer

NOTE

Your printer documentation may require you to install the printer software before physically connecting the printer to your computer. If you do not install the software as instructed by the printer manufacturer, the printer may not function correctly.

Read the documentation that came with your printer. Follow the manufacturer's instructions when connecting a local printer.

Connecting a USB printer

You can connect a USB-compatible printer to your computer through the USB ports. To determine if the printer is USB compatible, check its documentation.

To make the connection, you need a suitable USB cable, which may come with your printer. If a USB cable was not included with your printer, you can purchase one from a computer or electronics store.

If your printer supports Plug and Play, your computer will automatically recognize the printer; the printer is then ready

for use. Refer to your printer documentation for further instructions.



TECHNICAL NOTE: To determine if your printer supports Plug and Play, check its documentation.

If your printer does not support Plug and Play, you must set up the printer as described in “[Setting up a printer](#)” on page 71.

To connect a USB printer to your computer:



- 1 Connect the printer cable to the printer and then connect the other end to one of the computer’s USB ports.
- 2 Plug the printer’s power cable into a live AC outlet.

Connecting a parallel printer

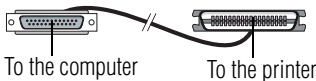
To connect a parallel printer:

CAUTION

Connecting the parallel printer cable while the computer is on may damage the printer, the computer, or both.



- 1 Connect the printer cable to the printer and to the computer’s parallel port.



Sample identifying the ends of a parallel printer cable

- 2 Plug the printer’s power cable into a live AC outlet.

Setting up a printer

NOTE

Some printers require a specific installation process. Refer to your printer installation guide for instructions before completing the following procedure.

If your printer does not support Plug and Play, follow these steps to set it up for the first time. You only need to set up the printer once.

- 1 Click **Start, Printers and Faxes**.

The Printers and Faxes window appears.

- 2 Click **Add a printer**.

The Add Printer Wizard appears.

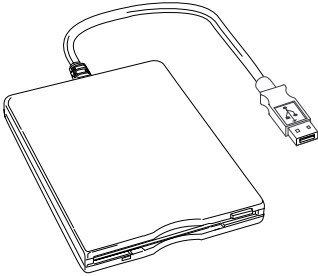


Sample Add Printer Wizard

- 3 Follow the on-screen instructions to set up your printer.

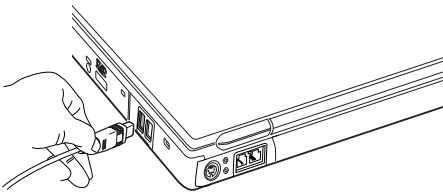
Connecting an optional external diskette drive

Some operations, such as creating a password service diskette, require a diskette drive designed for use with 3.5-inch diskettes.



Sample optional external USB diskette drive

To connect an optional external USB diskette drive, connect the cable to one of the computer's USB ports.



Sample connecting an optional external USB diskette drive

Connecting external speakers or headphones

To attach an external stereo output device:



- 1 Locate the headphone jack on the front of the computer.
- 2 Using any necessary adapters, plug the cable from the external audio device into the headphone jack. The headphone jack requires a 3.5-mm, 16-ohm stereo jack.

When the headphone is inserted, the internal speakers are automatically disabled.

CAUTION

Before putting on headphones to listen to an audio CD, turn the volume dial down, and do not set the volume too high when using the headphones. Continuous exposure to loud sound can harm your hearing.

Connecting a microphone

To record high-quality sounds, you can attach a microphone:



- 1 Locate the microphone jack on the front of the computer.
- 2 Plug the microphone cord into the jack.
- 3 Turn on the microphone.

For more information, see [“Recording sounds” on page 137](#).

Caring for your computer

This section gives tips on cleaning and moving your computer. For information about taking care of your computer’s battery, see [“Taking care of your battery” on page 118](#).

Cleaning the computer

CAUTION

Keep liquids, including cleaning fluid, out of the computer's keyboard, speaker, and other openings. Never spray cleaner directly onto the computer. Never use harsh or caustic chemical products to clean the computer.

To keep your computer clean, gently wipe the display panel and exterior case with a lightly dampened cloth.

Moving the computer

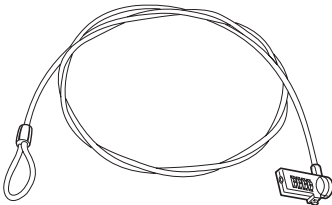
Before moving your computer, even across the room, make sure all disk activity has ended (the drive indicator light stops glowing) and all external peripheral cables are disconnected.

CAUTION

Do not pick up the computer by its display panel or by the back (where the ports are located). Doing so could damage the system.

Using a computer lock

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



Sample computer lock cable

To secure the computer:

- 1** Wrap the cable through or around some part of a heavy object.

Make sure there is no way for a potential thief to slip the cable off the object.

- 2** Pass the locking end through the loop.



- 3** Insert the cable's locking end into the security lock slot on your computer, then engage the locking device.

The computer is now securely locked.

Chapter 2

Learning the Basics

This chapter gives some computing tips and provides important information about basic features.

Computing tips

- ❖ Save your work frequently.

Your work stays in the computer's temporary memory until you save it to the disk. If the network you are using goes down and you must restart your computer to reconnect, or your battery runs out of charge while you are working, you will lose all work since you last saved.

See [“Saving your work” on page 84](#) for further information.



HINT: Some programs have an automatic save feature that can be activated. This feature saves your file to the hard disk at preset intervals. See your software documentation for details.

-
- ❖ Back up your files to disks (or other removable media) on a regular basis. Label the backup copies clearly and store them in a safe place.

It is easy to put off backing up because it takes time. However, if your hard disk suddenly fails, you will lose all the data on it unless you have a separate backup copy.

- ❖ Use Error-checking and Disk Defragmenter regularly to conserve disk space and improve performance.
- ❖ Scan all new files for viruses.
- ❖ This precaution is especially important for files you receive via diskette, email, or download from the Internet. Take frequent breaks to avoid repetitive-motion injuries and eyestrain.
- ❖ Do not turn off the computer if a drive indicator light indicates a drive is active.

Turning off the computer while it is reading from or writing to a disk may damage the disk, the drive, or both.

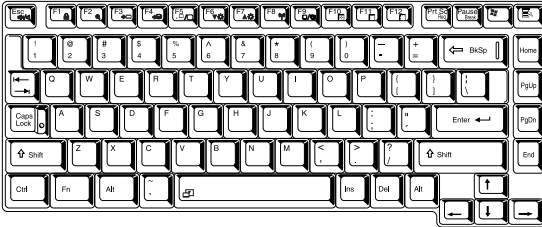
- ❖ Before turning off the computer, use the Turn off computer command or Standby command. See [“Powering down the computer”](#) on page 96 to learn more about Standby.

NOTE

The Windows® XP operating system records information, such as your desktop setup, during its shutdown procedure. If you do not let the Windows® XP operating system shut down normally, details such as new icon positions may be lost.

Using the keyboard

Your computer's keyboard contains character keys, control keys, function keys, and special Windows® keys, providing all the functionality of a full-size keyboard.



Sample keyboard

Character keys

Typing with the character keys is very much like typing on a typewriter, except that:

- ❖ The space bar creates a space character instead of just passing over an area of the page.
- ❖ The lowercase letter l (el) and the number 1 are not interchangeable.
- ❖ The uppercase letter O and the number 0 are not interchangeable.

Making your keyboard emulate a full-size keyboard

Although your computer's keyboard layout is compatible with a standard full-size keyboard, it has fewer keys.

A standard full-size keyboard has two Enter, Ctrl, and Alt keys; editing keys; cursor positioning keys; and a numeric keypad. Pressing the Fn key simultaneously in combination with one of the specially marked keys allows you to emulate a full-size keyboard.

Your computer's keyboard has only one Enter and one Ctrl key. Most of the time, this does not matter. However, some

programs assign separate functions to the right and left Ctrl and Alt keys, or to the regular and numeric pad Enter keys on the full-sized keyboard. Using the Fn key, you can simulate these separate keys, as follows:

- ❖ Press Fn and Ctrl simultaneously to simulate the Ctrl key on the right side of the enhanced keyboard.
- ❖ Press Fn and Enter simultaneously to simulate the Enter key on the numeric pad of the enhanced keyboard.

Ctrl, Fn, and Alt keys



Sample Ctrl, Fn, and Alt keys

The Ctrl, Fn, and Alt keys do different things depending on the program you are using. For more information, see your program documentation.

Function keys

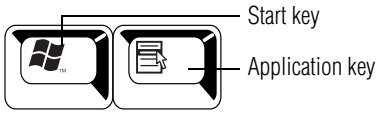
The function keys (not to be confused with the Fn key) are the 12 keys at the top of the keyboard.



Sample function keys

F1 through F12 are called function keys because they execute programmed functions when pressed. Used in combination with the Fn key, function keys marked with icons execute specific functions on the computer. For example, Fn+F9 turns off the TouchPad. For more information, see [“Fn-esse®” on page 148](#), or [“Hot Keys” on page 212](#).

Windows special keys



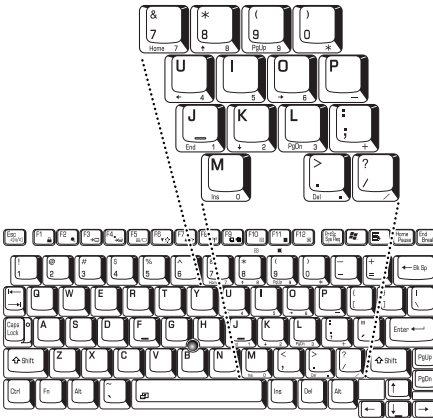
Sample Windows special keys

Your computer's keyboard has two keys that have special functions in Windows:

- ❖ **Start key**—Opens the Start menu
- ❖ **Application key**—Has the same function as the secondary mouse button

Overlay keys

The keys with gray numbers and symbols on the front of them form the numeric and cursor overlay. This overlay lets you enter numeric data or control the cursor as you would using the 10-key keypad on a desktop computer's keyboard.



Sample numeric and cursor control overlay

Using the overlay to type numeric data

The keys with the numbers on their right front are the numeric overlay keys.



To turn the numeric overlay on, press Fn and F11 simultaneously. The numeric mode light on the keyboard indicator panel glows when the numeric overlay is on.

To disable the numeric overlay, hold down the Fn key and press F11 again. The numeric mode light on the keyboard indicator panel goes out.

Using the overlay for cursor control

The keys with the gray arrows and symbols on their left front are the cursor control overlay keys.



To turn the cursor control overlay on, press Fn and F10 simultaneously. The cursor control mode light on the keyboard indicator panel glows when the cursor control overlay is on.

To disable the cursor control overlay, hold down the Fn key and press F10 again. The cursor control mode light on the keyboard indicator panel goes out.

Starting a program

The easiest way to start a program is to double-click the name of the file that contains the information you want to work on. To find the file, use My Computer or Windows® Explorer.

If you prefer to open the program first, you have four options. You can:

- ❖ Double-click the icon for the program on your desktop
- ❖ Use the Start menu
- ❖ Use Windows® Explorer or My Computer to locate the program file
- ❖ Use the Run dialog box

The next three sections explain how to start a program from the Start menu, Explorer and the Run dialog box.

Starting a program from the Start menu

When you install a program, the operating system usually puts an icon in the All Programs menu. To start a program that has an icon in the All Programs menu, follow these steps, which use the Windows® WordPad program as an example:

- 1 Click **Start**, then point to **All Programs**.


The Windows® XP operating system displays the All Programs menu, which lists programs and program groups. If your program is listed, go to step 3, otherwise, continue with step 2.

- 2 Point to the program group, in this example, **Accessories**.

The Accessories menu is displayed.

- 3 Click the program, in this example, **WordPad**.

WordPad opens.

-  To close the program, click the **Close** button in the upper-right corner of the program's window.

Starting a program from Windows® Explorer

If a program is not listed in the All Programs menu, you can start it from Windows® Explorer. Windows® Explorer gives you a view of your computer's contents as a hierarchy or "tree." You can easily see the content of each drive and folder on your computer. To use this method, you should know the file name and location of the program's executable file (this file ends with .exe).

This example opens WordPad using Windows Explorer.

- 1 Click **Start**, then point to **All Programs**.

- 2 Click **Accessories**.

3 Click **Windows Explorer**.

4 Click **My Computer** to expand the window.

5 In the left part of the window, click the line that ends in “(C:).”

6 In the left part of the window, under the C: icon, double-click the folder containing the program, in this case **Program Files**.

Windows® Explorer shows the contents of the Program Files folder on the right side of the window. The left side of the window shows all the folders contained within the Program Files folder.


7 In the left part of the window, click **Windows NT**.

8 Click **Accessories**.

Windows® Explorer shows the contents of the **Accessories** folder on the right side of the window.

9 In the right part of the window, double-click **WordPad**.

The operating system opens WordPad.

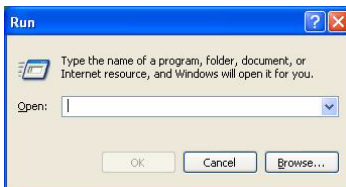
 To close the program, click the **Close** button in the upper-right corner of the program’s window.

Starting a program from the Run dialog box

This example uses the Run command to start WordPad:

1 Click **Start**, then click **Run**.

The Run dialog box appears.



Sample Run dialog box

-
- 2 In the Run dialog box:
- ❖ If you know the program's location, type the command line. For a program in the Windows® folder, type just the program name. Otherwise, type the full file path. For example, to access WordPad, type: `c:\Program Files\Windows NT\Accessories\Wordpad.exe`, then click **OK**.
 - ❖ If you do not know the location, you can search for it by clicking **Start**, then **Search**, and then following the on-screen instructions.



HINT: To run the same program again, click the arrow to the right of the text box and select the command line from the drop-down list.

Saving your work

Before you turn off the computer, save your work on the hard disk drive or diskette/CD. This is one of the most important rules of computing.



TECHNICAL NOTE: Save your data even when you are using the Standby command, in case the main battery discharges before you return to work.

Saving documents is quick and easy, so it is a good idea to get in the habit of saving frequently.

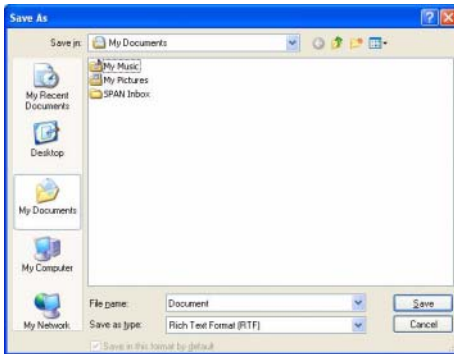
Many programs offer a feature that saves documents at regular intervals. Check your program's documentation to see if it has an automatic save feature.

Saving files

- 1 On the **File** menu of your Windows® program, click **Save**.

If you are working with a document that already has a file name, this is all you need to do. If you created a new document, your program displays a Save As dialog box.

Use this dialog box to specify where to store the document and to give it a file name.



Sample Save As dialog box

- 2 Choose the drive and folder where you want your file to be stored.
- 3 Type a file name, then click **Save**.



HINT: To make another copy of the file you are currently working with, choose Save As from the File menu and give the new file a different name.

The Windows® XP operating system supports file names of up to 255 characters; the names can include spaces. Some applications still require file names limited to eight characters.

File names

The Windows XP operating system supports long file names which can contain up to 255 characters and can include spaces. Some applications do not support long file names and require file names limited to no more than eight characters.

You may use all the letters and numbers on the keyboard plus these characters: _ ^ \$ ~ ! # % & { } () @ and '. File names are not case-sensitive.

Using a file extension

Most programs assign an extension to the file name that identifies the file as being created in the program with a particular format. For example, Microsoft Word saves files with a .doc extension. Any file name with an extension of “.doc” is assumed to be a Microsoft Word file. Creating your own extension is usually unwise, since the program is unlikely to recognize a strange extension and may refuse to handle your file correctly.



TECHNICAL NOTE: By default, the Windows® XP operating system does not show file extensions. For information on showing or hiding file extensions, see your Windows® XP online help.

Printing your work

Ensure the operating system is set up for your printer as described in “Setting up a printer” on page 71.

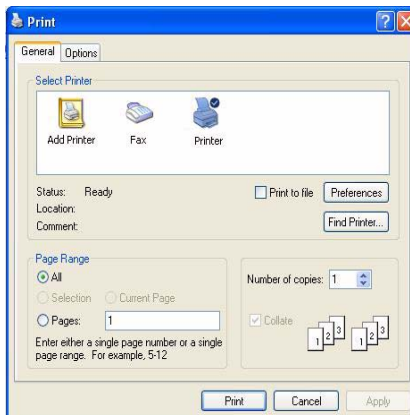


HINT: You only need to set up the printer the first time you connect it. If you use more than one printer or are changing printers, you will need to set up the Windows® XP Professional operating system to run with the additional printer(s).

To print a file:

- 1 If your printer is not on, turn it on now.
- 2 Open the **File** menu of your Windows® program and click **Print**.

The program displays a Print dialog box.



Sample Print dialog box

- 3 Specify the print parameters. For example, the range of pages and number of copies to print.
- 4 Click **Print**.

Using the DVD-ROM or multi-function drive

Optical storage has become the preferred medium for software, music, and video. Digital versatile discs (DVDs) provide a significant increase in data storage and support features that are not available on any other video platform. These features include wide-screen movies, multiple language tracks, digital surround sound, multiple camera angles, and interactive menus.

For these reasons, your computer may come with a DVD-ROM drive or multi-function drive.



TECHNICAL NOTE: Your DVD-ROM or multi-function drive is set to play region 1 (North America) DVD-ROMs. If you play a DVD disc from another region, the drive will automatically change to play in the format of the other region. The drive will allow you to change regions four times. On the fourth change, the region will be “locked in.” That is, the drive will only play DVDs from that last region. Note that changing from region 1 to region 2 and back to region 1 is counted as two changes.

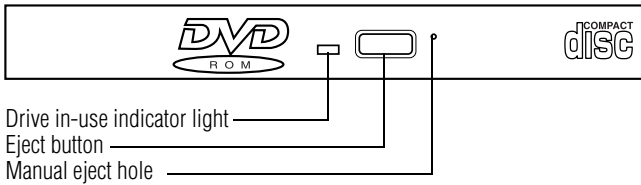
NOTE

For optimum CD and DVD performance, it is recommended that you play CDs and DVDs while running the computer on AC power.

DVD-ROM or multi-function drive components

The DVD-ROM or multi-function drive is located on the left side of the computer. The Media control buttons are located to the left of the keyboard and can be accessed when the display panel is open.

Your DVD-ROM or multi-function drive may look like this:



Sample DVD-ROM drive

Drive in-use indicator light—Indicates when the drive is in use.

Eject button—Press to release the disc tray.

CAUTION

Do not press the eject button or turn off the computer while the Drive in-use indicator light is glowing. Doing so could damage the disc or the drive.

When the disc tray is open, be careful not to touch the lens or the area around it. Doing so could cause the drive to malfunction.

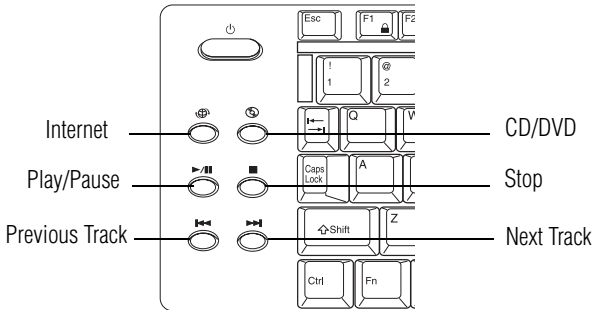
Manual eject hole—Use if you need to release the disc tray when the power is off. Use a straightened paper clip or other narrow object to press the manual eject button located inside the hole.

CAUTION

Never use a pencil to press the manual eject button. Pencil lead can break off inside the computer and damage it.

CD/DVD control buttons

The control buttons located to the left of the keyboard let you play audio CDs when the computer is off. You can also use them to play CDs and DVDs when the computer is on.



Sample Media control buttons in front of the computer

The **Music CD** button activates an audio CD playing application that can play audio CDs when the computer is powered off.

The following chart describes the Music CD button functionality.

Power is off and you press the Music CD button If a CD is in the drive, the system operates as a stand-alone CD player.

Operating system is running and you press the Music CD button If a CD is in the drive, the Windows Media® Player starts and the audio CD begins to play.

If a DVD is in the drive, WinDVD™ starts and the DVD begins to play.

The **previous track** button returns to the preceding track on the disc.

The **next track** button skips to the following track on the disc.

The **play/pause button** starts playing the disc or makes it pause if currently playing.

The **stop/eject** button stops a disc that is currently playing.

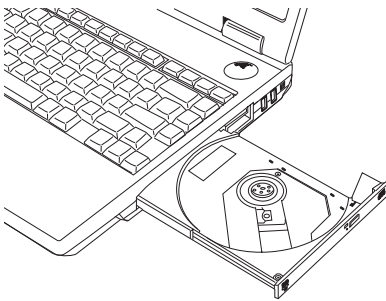
You can eject a disc by pressing the stop/eject button twice. Use this method to eject a disc when the computer is turned off and the sound subsystem is turned on.

Inserting a compact disc

To insert a compact disc into the drive:

- 1 Make sure the computer is turned on.
- 2 Make sure the in-use indicator light is off.
- 3 Press the drive's eject button.

The disc tray slides partially out of the drive (about 1 inch).



Sample drive tray fully extended

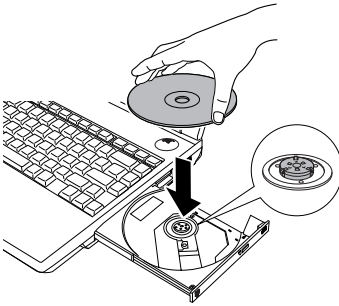


HINT: The drive will not open if the computer's power is off.

- 4 Grasp the tray and pull it fully open.
- 5 Hold the disc by its edges and check that it is free of dust.

If the disc is dusty, clean it as described in “Caring for CD or DVD Discs” on page 93.

- 6 Place the disc carefully in the disc tray, label side up.



Sample positioning the disc in the drive

- 7 Gently press the disc onto the center spindle until you feel it click into place.

CAUTION

Handle DVDs and CDs carefully, making contact only with the center hole and edge. Do not touch the surface of the disc. Do not stack discs. If you incorrectly handle the discs, you could lose data.

- 8 Make sure the disc is completely on the spindle and is lying flat on the tray.

CAUTION

If you insert the disc incorrectly, it may jam the drive. If this happens, contact Toshiba support for assistance.

- 9 Push the disc tray in by pressing gently on the center of the tray until it clicks into place.

You are ready to use the disc.

Removing a disc with the computer on

To remove a compact disc (CD or DVD) with the computer turned on:

- 1 Press the eject button on the drive.

CAUTION

Do not press the eject button while the in-use indicator light is glowing. Doing so could damage the disc or the drive.

Also, if the disc is still spinning when you open the disc tray, wait for it to stop spinning before you remove it.

- 2 Pull the tray until it is fully open, remove the disc, and place it in its protective cover.
- 3 Gently push the tray in to close it.

Removing a disc with the computer off

- 1 Insert a slender object, such as a straightened paper clip, into the manual eject hole.

CAUTION

Never use a pencil to press the manual eject button. Pencil lead can break off inside the computer and damage it.

- 2 Gently pull the tray out until it is fully open, remove the disc, and place it in its protective cover.
- 3 Gently push the tray in to close it.

Caring for CD or DVD Discs

- ❖ Store your discs in their original containers to protect them from scratches and keep them clean.
- ❖ Do not bend a disc or place heavy objects on top of it.

- ❖ Do not apply a label to or otherwise mar the surface of a disc.
- ❖ Hold a disc by its outside edge. Fingerprints on the surface can prevent the DVD-ROM drive or multi-function drive from reading the data properly.
- ❖ Do not expose discs to direct sunlight or extreme heat or cold.
- ❖ To clean a disc that is dirty, wipe it with a clean, dry cloth. The most efficient method to clean it is to start from the center of the disc and wipe toward the outward edge (not in a circle). If necessary, moisten the cloth with water or a neutral cleaner (not benzine or rubbing alcohol). Let the disc dry completely before inserting it in the drive.

Using PC Cards



TECHNICAL NOTE: For PCMCIA-compatible PC Cards, check the package to make sure they conform to the PCMCIA 2.1 standard (or later). Other cards may work with your computer, but are likely to be much more difficult to set up and use.

For information on inserting or removing a PC Card, see [“Inserting and removing PC Cards” on page 139](#).

Hot swapping

With PC Cards, you can replace one PC Card with another while the computer is on. This is called “hot swapping.”

Hot swapping precautions

Although you can insert a PC Card at any time, remember not to remove a card while it is in use. Otherwise, you could lose valuable information. For example:

- ❖ Do not remove a hard disk card while the system is accessing it.
- ❖ Do not remove a network card while you are connected to a network.
- ❖ Do not remove a SCSI card while any of the SCSI devices connected to it are operating.

Before removing a PC Card, stop it by clicking the **Safely Remove Hardware** icon on the System tray. After the PC Card is stopped, it is safe to remove.

Using your computer at the office

By connecting an external monitor, external full-size keyboard, and a mouse, you can work with your notebook as if it were a standard office computer.



An external monitor or projector connects to the RGB (monitor) port.



Any USB device can connect to the USB ports.

Backing up your work

Back up all the files you create in case something happens to your computer. You can back up your files to different types of media such as CDs, DVDs, diskettes, or to a network, if available.

To back up several files at one time, use the Microsoft® Windows® backup program preinstalled on the computer's hard disk. Also see [“Backing up your data to CDs with Windows® XP”](#) on page 204.



HINT: Backing up all the files on your hard disk may take a considerable amount of time and multiple CDs/DVDs. You may prefer to use a high-capacity backup system, such as an external hard drive.

Small files can be backed up on diskettes if an optional external diskette drive is available.

Restoring your work

To restore information from your backup media to your hard disk, use the Restore page in the backup program. Look in the online Help or your operating system documentation for information on restoring files.



TECHNICAL NOTE: When restoring files, the backup program prompts you if you try to overwrite a file that already exists on the hard disk. Make sure the backup version is the one you want before overwriting the existing file.

Powering down the computer

NOTE

Pushing the power button before shutting down the Windows operating system could cause you to lose your work. Make sure the system indicator panel's disk light and the drive-in use light are off. If you turn off the power while a disk is being accessed, you may lose data or damage the disk and/or drive.

When you power down the computer, you have three options to choose from: Turn Off (or Shut Down) Computer, Standby, and Hibernation.



TECHNICAL NOTE: Before using any of these options to power down your computer, save your files and make sure the disk activity lights are off.

If you change your mind and decide to continue working after all, wait a few seconds before turning the computer on again.

Using Turn Off Computer or Shut Down

For the Windows XP Home operating system, follow these steps to shut down the computer:

- 1 Click **Start**, select **Turn off computer**.

The Turn off computer dialog box appears.



Sample Turn off computer Windows dialog box

- 2 Click **Turn Off**.

The computer shuts down completely.

For the Windows XP Professional operating system, follow these steps to shut down the computer:

- 1 Click the **Start** button, then **Shut down**.

The Shut Down Windows dialog box appears.

- 2 Select **Shut down** from the drop-down list.
- 3 Click **OK**.

The computer shuts down completely.

NOTE

Holding the Shift key while the Turn Off computer Windows dialog box is open, changes the Stand By button to hibernate. For more information about setting up hibernation, refer to [“Using Hibernation” on page 99](#).

Shutting down more quickly

You can shut down the computer by pressing the power button.

To use either of these methods, you first need to turn it on in Toshiba's Power Saver utility.

1 Click **Start, Control Panel**, then click **Performance and Maintenance**.



2 Click the **Toshiba Power Saver** icon.

3 Click on the **Setup Action** tab.

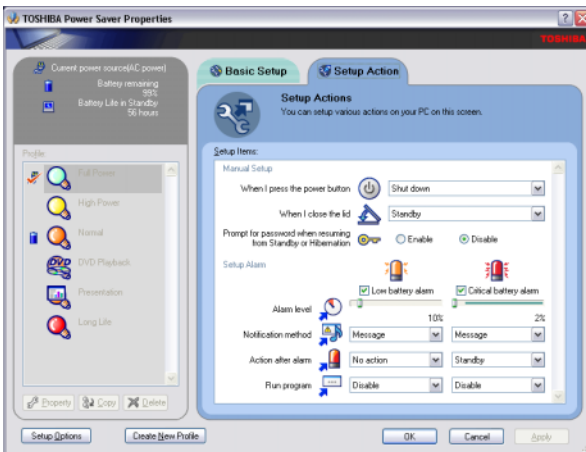
4 Select the options you want from the drop-down lists.

❖ **When I press the power button**

Set this option to **Shutdown** to have the computer shut down when you press the power button.

5 Click **Apply**.

6 Click **OK**.



Sample system power mode settings

NOTE For more information about the Power Saver utility, see “TOSHIBA Power Saver” on page 157.

Starting again after Shut down

To start the computer up again, press the power button until the on/off light changes to blue.

If you shut down the computer by closing the display panel, you can start it again by opening the display panel.

Using Hibernation

Hibernation mode shuts the computer down completely, but it first saves the current mode of the computer to the hard disk. Since Hibernation mode does not require power to maintain the saved information, the system settings are retained indefinitely. Restoring information from the hard disk takes longer than restoring it from memory. When you start up again, the computer runs a self-test, loads the operating system, and then returns to the mode in which you left it.

Factors to consider when choosing Hibernation:

- ❖ While in Hibernation mode, the computer uses no battery power
- ❖ Because the mode of the system is held on the hard disk, no data is lost if the main battery discharges
- ❖ When starting up again, Hibernation uses less time and battery power than does Turn off computer
- ❖ Restarting from Hibernation uses a little more time and battery power to start up than restarting from Standby, because information is being retrieved from the hard disk rather than from memory

- ❖ When starting up again, the computer returns to the mode in which you left it, including all open programs and files you were using

Configuring your computer for Hibernation

- 1 Click **Start, Control Panel**, then click **Performance and Maintenance**.



- 2 Click the **Toshiba Power Saver** icon.
- 3 Click the **Setup Action** tab.
- 4 Select **Hibernation** for the options you want.
 - ❖ **When I press the power button**
Set this option to **Hibernate** so that the computer will go into Hibernation mode when you press the power button.
 - ❖ **When I close the lid**
Set this option to **Hibernate** so that the computer will go into Hibernation mode when you close the display panel.
- 5 Click **Apply**.
- 6 Click **OK**.

The computer is now set to automatically go into Hibernation when your option settings occur.

NOTE

For more information about the Power Saver utility, see [“TOSHIBA Power Saver” on page 157](#).

Once the computer is configured, put the computer into Hibernation mode by either pressing the power button or closing the display panel, depending on the hibernation options taken.

Starting again from Hibernation mode

To start up the computer from Hibernation mode, press the power button until the on/off light turns blue. The computer returns to the screen you were using.

If you put the computer in Hibernation mode by closing the display panel, you can start it again by opening the display panel.

Using Standby

The Standby command puts the computer into a power-saving mode. Standby holds the current mode of the computer in memory so that, when you restart the computer, you can continue working from where you left off.

Factors to consider when choosing Standby:

- ❖ While in Standby mode, the computer uses some battery power. A fully charged main battery will last up to eight hours in Standby mode.
- ❖ Restarting from Standby uses less time and battery power than restarting from Turn off computer or Hibernation.
- ❖ When starting up again, the computer returns to the mode in which you left it, including all open programs and files you were using.

NOTE

If you power down using the Standby command and the main battery discharges fully, your unsaved information will be lost. Be sure to save your work first.

To power down the computer using the Standby command, click **Start, Turn off computer**, and select **Stand By**.



Sample Turn off computer Windows® dialog box

NOTE

If you hold down the Shift key, Stand By becomes Hibernate in the Turn off computer dialog box. To enter hibernation mode, you must hold down the Shift key while you select Hibernate.

The computer saves the status of all open programs and files, turns off the display, and goes into a low-power mode. The on/off light blinks amber indicating the machine is in Standby mode.

Going into Standby mode more quickly

You can put the computer into Standby mode by either pressing the power button or closing the display panel. You can also specify an amount of time after which the computer automatically goes into Standby mode.

To use any of these methods, you first need to enable them in Toshiba's Power Saver utility.

- 1 Click **Start**, **Control Panel**, then click **Performance and Maintenance**.
- 2 Click the **Toshiba Power Saver** icon.
- 3 Click the **Setup Action** tab.
- 4 Select **Standby** for the options you want.

❖ **When I press the power button**

Set this option to **Standby** to put the computer into Standby mode when you press the power button.

❖ **When I close the lid**

Set this option to **Standby** to put the computer into Standby mode when you close the display panel.

5 Click **Apply**.

6 Click **OK**.

NOTE

For more information about the Power Saver utility, see [“TOSHIBA Power Saver” on page 157](#).

Starting again from Standby mode

To start up the computer from Standby mode, press the power button until the on/off light changes to blue. The computer returns to the screen you were using.

If you put the computer in Standby mode by closing the display panel, you can start it again by opening the display panel.

Toshiba's online resources

Toshiba maintains a number of online sites to which you can connect. These sites provide information about Toshiba products, give help with technical questions and keep you up to date with future upgrades. For more information, see [“Contacting Toshiba” on page 209](#).

Chapter 3

Mobile Computing


This chapter covers all aspects of using your computer while traveling.

Toshiba's energy-saver design

Your computer enters a low-power suspension mode when it is not being used, thereby conserving energy and saving money in the process. It has a number of other features that enhance its energy efficiency.

Many of these energy-saving features have been set by Toshiba. We recommend you leave these features active, allowing your computer to operate at its maximum energy efficiency, so that you can use it for longer periods while traveling.

Running the computer on battery power

-  The computer contains a removable Lithium-Ion (Li-Ion) high-capacity battery that provides power when you are away from an AC outlet. You can recharge it many times.

Battery Notice

Battery life may vary considerably from specifications 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. See "Detailed Specs" for specific battery measurement test. Recharge time varies depending on usage. Battery may not charge while the computer is consuming full power.

After a period of time, the battery will lose its ability to perform at maximum capacity and will need to be replaced. This is normal for all batteries. To purchase a new battery pack, see the accessories information that shipped with your computer or visit the Toshiba web site at www.accessories.toshiba.com.

To ensure that the battery maintains its maximum capacity, operate the computer on battery power at least once a month until the battery is fully discharged. Please see “[Maximizing battery life](#)” on page 119 for procedures. If the computer is continuously operated on AC power, either through an AC adapter or a docking station (if applicable to your system), for an extended period (more than a month), the battery may fail to retain a charge. This may shorten the life of the battery, and the battery light may not indicate a low-battery condition.

NOTE

For optimum DVD performance, it is recommended that you play DVDs while running the computer on AC power. In addition, your computer's Power Saver utility can be used to select a power level setting for DVD playback.

The computer also has an internal real-time-clock (RTC) battery.

The RTC battery powers the RTC memory that stores your system configuration settings and the current time and date information. It maintains this information for up to a month while the computer is turned off.



TECHNICAL NOTE: The RTC battery does not charge while the computer is turned off, even when AC power is attached.

The RTC battery charges when the computer is powered on.

Power management

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.

CAUTION

Changes to these settings may result in system performance or stability issues. Users who are not completely familiar with the power management component of the system should use the preset configuration. For assistance with setup changes, contact Toshiba's Global Support Centre.

Using additional batteries

In addition to the main battery, you may also have an optional second battery (not included with your computer). If you travel and need to work for many hours without an AC power source, you may purchase a battery module for use in the computer, or carry additional charged battery packs with you. You can then replace a discharged battery and continue working.

For more information on batteries and accessories, see accessories.toshiba.com.

Charging batteries

The battery needs to be charged before you can use it to power the computer.

CAUTION

Never leave batteries in the battery charger for more than a week at a time. Doing so may reduce the potential charge of the battery.

Use only battery chargers designed to work with your notebook computer. You can order a Toshiba battery charger from Toshiba's Web site at accessories.toshiba.com.

NOTE

Battery charge time may vary depending on the applications, power management settings, and features used.

Charging the main battery

To charge the main battery while it is in your computer, plug the computer into a live electrical outlet. The battery charges whether the computer is on or off.



TECHNICAL NOTE: When your computer is using all of the power provided by the AC adapter to run applications, features, and devices, the recharging of the battery cannot occur. Your computer's Power Saver utility can be used to select a power level setting that reduces the power required for system operation and will allow the battery to recharge.

The battery may not start charging immediately under the following conditions:

- ❖ The battery is extremely hot or cold.

To ensure that the battery charges to its full capacity, wait until it reaches room temperature (50 to 80 degrees Fahrenheit, 10 to 26 degrees Celsius).

- ❖ The battery is almost completely discharged.

Leave the power connected and the battery should begin charging after a few minutes.



HINT: Once the battery is fully charged, we recommend that you operate your computer on battery power until the battery discharges completely. Doing this extends battery life and helps ensure accurate monitoring of battery capacity.

Charging the RTC battery

Your computer has an internal real-time clock (RTC) battery. The RTC battery powers the System Time Clock and BIOS memory used to store your computer's configuration settings. When fully charged, it maintains this information for up to a month when the computer is powered off.

The RTC battery may have become completely discharged while your computer was shipped, resulting in the following error message during startup:

```
BAD RTC BATTERY  
BAD CHECKSUM (CMOS)  
CHECK SYSTEM
```

NOTE The above error message may vary by computer model. The RTC battery does not charge while the computer is turned off even when the AC adapter is charging the computer. The RTC battery charges when the computer is powered on.

If the RTC battery is low, the real-time clock and calendar may display the incorrect time and date, or stop working.

To recharge the RTC battery, plug the computer into a live electrical outlet and leave the computer powered on for 24 hours.

NOTE It is seldom necessary to charge the RTC battery because it charges while the computer is on. If the RTC battery is low, the real-time clock and calendar may display the incorrect time and date or stop working.

When Hibernation mode is enabled and the RTC battery is completely discharged, a warning prompts you to reset the real-time clock.

The computer can be used while the RTC battery is being charged, although the charging status of the RTC battery cannot be monitored.

Monitoring main battery power



The computer's main battery light gives you an indication of the main battery's current charge:

- ❖ Glows amber while the main battery is being charged (AC adapter connected).
- ❖ Glows blue when the main battery is fully charged.

-
- ❖ Is unlit when the battery has discharged, the battery is not charging, or the AC adapter is not plugged into the computer or AC outlet.

NOTE

Battery life and charge time may vary, depending upon power management settings, applications and features used.

- ❖ Flashes amber when the main battery charge is low and it is time to recharge the main battery or plug in the AC adapter.

NOTE

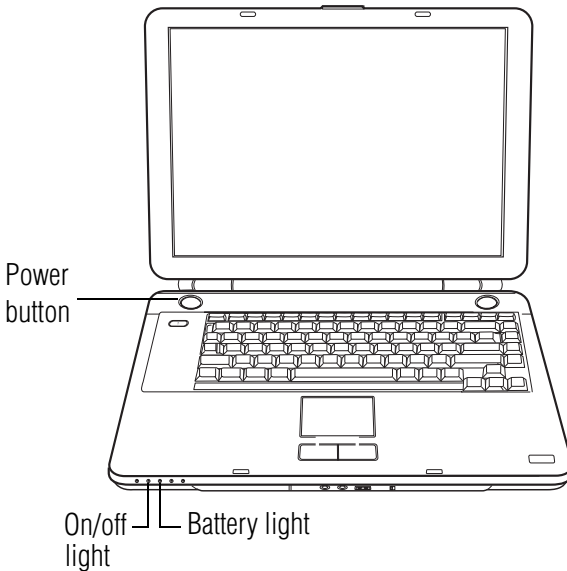
If the AC power light flashes amber during charging, either the battery pack is malfunctioning, or it is not receiving correct input from the AC power supply.

Disconnect the AC cable and remove the battery pack. See [“Changing the main battery” on page 116](#) for information on replacing the main battery.



HINT: Be careful not to confuse the battery light (□), the on/off light (⏻), and the power button light (above the keyboard).

When the on/off light or power button light flashes amber, it indicates that the system is suspended (using Windows® XP Standby command).



Determining remaining battery power

NOTE

Wait at least 16 seconds after turning on the computer before trying to monitor the remaining battery power. The computer needs this time to check the battery's remaining capacity and perform its calculations.



- 1 Click **Start, Control Panel, Performance and Maintenance**, and then **Toshiba Power Saver**.
- 2 Click the **Toshiba Power Saver** icon.
- 3 The Power Saver Properties window appears.

The remaining battery charge is indicated on the left side of the dialog box.

With repeated discharges and recharges, the battery's capacity gradually decreases. A frequently used older battery does not

power the computer for as long as a new battery, even when both are fully charged.



TECHNICAL NOTE: The computer drains the battery faster at low temperatures. Check your remaining charge frequently if you are working in temperatures below 50 degrees Fahrenheit.

The computer calculates the remaining battery charge based on your current rate of power use and other factors such as the age of the battery.

What to do when the main battery runs low

When the main battery runs low you can:

- ❖ Plug the computer into an external power source and recharge the main battery
- ❖ Place the computer into Hibernation mode and replace the main battery with a charged spare
- ❖ Connect the computer to an optional high capacity battery (if available for your computer)
- ❖ Save your work and turn off the computer

If you do not manage to do any of these things before the main battery completely runs out of power, the computer automatically enters Hibernation mode and turns itself off. Hibernation mode keeps track of where you were, so that when you turn on the power again, you can continue where you left off.

If you have Hibernation mode enabled (the default), the computer copies the details of your open programs and files to the hard disk before shutting down. For more information on using Hibernation, see [“Using Hibernation” on page 99](#).

Setting battery alarms

You can set two alarms. Each alarm can be set to alert you when a specified percentage of remaining battery power has been reached. You can set how the warning occurs: sound an alarm, display a message, both, or none. You can also set the computer to enter Standby mode or Hibernation mode or to completely power down when the alarm goes off.

To change the default alarm settings:

- 1 Click **Start, Control Panel, Performance and Maintenance**, and then **Toshiba Power Saver**.
- 2 Click the **Setup Action** tab.
- 3 Configure the **Alarm settings** to suit your needs.

Conserving battery power

How long a fully charged battery pack lasts when you are using the computer depends on a number of factors, such as:

- ❖ How the computer is configured
- ❖ How much you use the hard disk, DVD-ROM or multi-function drive, diskette drives, or other optional devices
- ❖ Where you are working, since operating time decreases at low temperatures

There are various ways in which you can conserve power and extend the operating time of your battery:

- ❖ Enable Standby or Hibernation, which saves power when you turn off the computer and turn it back on again
- ❖ Use Toshiba's power-saving options

These power-saving options control the way in which the computer is configured. By using them, you can greatly increase the length of time you can use the computer before you need to recharge the battery.

Toshiba has combined these options into preset Power Profiles. Using one of these profiles lets you choose between maximum power savings and peak system performance. You may also set individual power-saving options to suit your own needs.

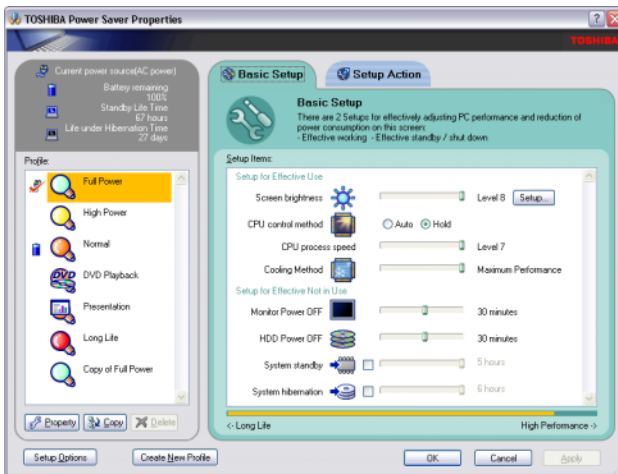
The following sections describe how to choose a Power Profile and discuss each power-saving option.

Power Profiles

You can choose a predefined Power Profile or select your own combination of power management options. To do this:

- 1 Click **Start, Control Panel, Performance and Maintenance**, and then **Toshiba Power Saver**.

The TOSHIBA Power Saver Properties window appears.



Sample TOSHIBA Power Saver Properties window

- 2 Select an appropriate profile for your work environment or create your own custom profile.

By changing the options that appear in the Power Saver Properties dialog box and clicking **OK**, you can reconfigure that function.

You may choose a power-saving management strategy to best suit your computing needs. If you are running on batteries and the programs that you are using do not require a lot of system resources, you may experience longer work sessions by enabling the Normal setting. Any options that you change become the active settings when you exit the program. (You do not have to restart your system before they become active settings.)

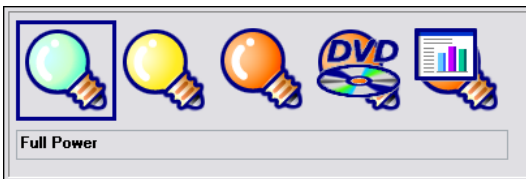
For more information, see [“TOSHIBA Power Saver” on page 157](#).

Using a hot key to set the Power Profile

You may use a hot key to set the Power Profile.

To set the Power Profile:

- 1 Press Fn and F2 simultaneously to display the Power Profile pop-up window.



Sample Power Profile mode pop-up window

- 2 While continuing to press Fn, press F2 until you select the desired Power Profile.

The Power Profile options are: Full Power, High Power, Normal, DVD Playback, Presentation, and Long Life.

- 3 Release the Fn key.

The pop-up window disappears. You are now in the selected mode.

For more information on setting the battery Power Profile, see [“TOSHIBA Power Saver” on page 157](#).

Changing the main battery

▲ WARNING Never short circuit the battery pack by either accidentally or intentionally bringing the battery terminals in contact with another conductive object. This could cause serious injury or fire, and could also damage the battery pack.

▲ WARNING Never expose a battery pack to abnormal shock, vibration or pressure. The battery pack's internal protective device could fail, causing it to overheat or ignite, resulting in caustic liquid leakage, or explosion or fire, possibly resulting in death or serious injury.

When your main battery has run out of power, you have two options: plug in the AC adapter or install a fresh main battery.

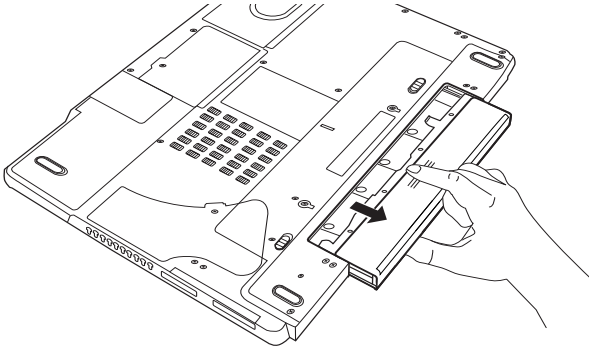


TECHNICAL NOTE: To avoid losing any data, save your files and then either completely shut down your computer, or put it into Hibernation mode before changing the main battery.

Removing the battery from the computer

- 1 Save your work.
- 2 Power off the computer or place it in Hibernation mode according to the instructions in [“Using Hibernation” on page 99](#).
- 3 Unplug and remove any cables connected to the computer, including the AC adapter.
- 4 Close the display panel and turn the computer upside down with the front of the computer facing you.

- 5 Slide the battery release latch to release the battery.
- 6 Pull the discharged battery out of the computer.



Sample removing the battery

⚠ WARNING

If the battery is leaking or its case is cracked, put on protective gloves to handle it, and discard it immediately. Always dispose of used battery packs in compliance with all applicable laws and regulations. Put insulating tape, such as cellophane tape, on the electrode during transportation to avoid a possible short circuit, fire or electric shock. Failure to do so could possibly result in serious injury.

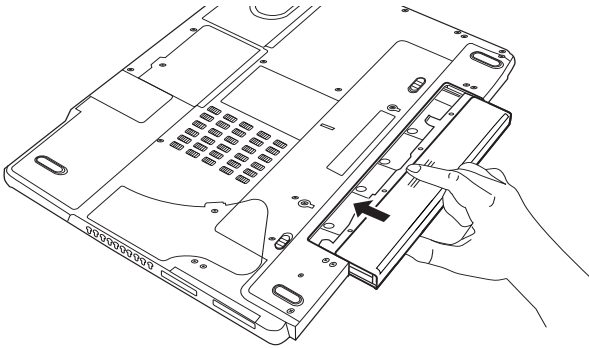
Inserting a charged battery

- 1 Wipe the terminals of the charged battery with a clean cloth to ensure a good connection.
- 2 Insert the charged battery into the slot until the latch clicks.

The battery pack has been designed so that you cannot install it with reverse polarity.

CAUTION

If the battery does not slide into the slot easily, move the battery release lock to the unlocked position and try again. Do not force the battery into position.

*Sample inserting the battery*

- 3 Turn the computer right side up.
- 4 Reconnect any cables that were removed in step 3 of “[Removing the battery from the computer](#)” on page 116.
- 5 Restart the computer.

Taking care of your battery

The following sections offer tips on how to take care of your battery and prolong its life.

Safety precautions

- ❖ If the battery pack produces an odor, overheats or changes color or shape while it is being used or charged, turn off the computer’s power immediately and disconnect the power cord/cable from the power socket. Carefully remove the battery pack from the computer.
- ❖ Do not try to disassemble a battery pack.

-
- ❖ Do not overcharge or reverse charge a battery. Overcharging will shorten its life, and reverse charging could damage it.
 - ❖ Avoid touching the metal terminals of the battery with another metal object. Short-circuiting the battery can cause it to overheat and may cause damage to the battery or the computer.
 - ❖ Do not incinerate a spent battery, as this could cause it to explode and release toxic materials.
 - ❖ If a battery is leaking or damaged, replace it immediately. Use protective gloves when handling a damaged battery.
 - ❖ To replace the main battery, use an identical battery that you can purchase through the Toshiba Web site at accessories.toshiba.com.
 - ❖ A reverse polarity condition should be avoided with all batteries. The main battery is designed so that it cannot be installed in reverse polarity.
 - ❖ Charge the battery only in the computer or in a battery charger designated as an approved option.
 - ❖ When you install the battery pack, you should hear a click when it is seated properly.
 - ❖ Do not expose the battery pack to fire. The battery pack could explode.

Maximizing battery life

To maximize the life of your battery pack:

- ❖ At least once a month, disconnect the computer from a power source and operate it on battery power until the battery pack fully discharges. Before doing so, follow the steps below:
 - 1 Turn off the computer's power.
 - 2 Disconnect the AC adapter and turn on the computer's power. If it does not turn on, go to step 4.

- 3 Operate the computer on battery power for five minutes. If the battery pack has at least five minutes of operating time, continue operating until the battery pack is fully discharged. If the battery light flashes or there is some other warning to indicate a low battery, go to step 4.
 - 4 Connect the AC adapter to the computer and the power cord/cable to a power outlet. The DC-IN or AC power-light should glow blue, and the battery light should glow amber to indicate that the battery pack is being charged. If the DC-IN or AC power-light indicator does not glow, power is not being supplied. Check the connections for the AC adapter and power cord/cable.
 - 5 Charge the battery pack until the battery light glows blue.
- ❖ If you have extra battery packs, rotate their use.
 - ❖ If you will not be using the system for an extended period, more than one month, remove the battery pack.
 - ❖ Disconnect the AC adapter when the battery is fully charged. Overcharging makes the battery hot and shortens its life.
 - ❖ If you are not going to use the computer for more than eight hours, disconnect the AC adapter.
 - ❖ Store spare battery packs in a cool dry place out of direct sunlight.

Disposing of used batteries

The life of a battery pack depends on usage. When the battery pack needs replacing, the main battery light flashes amber shortly after you have fully recharged the battery.

You must discard a battery if it becomes damaged.

▲ WARNING

Never attempt to dispose of a battery pack by burning or by throwing it into a fire, and never allow exposure to a heating apparatus (e.g., microwave oven). Heat can cause a battery pack to explode and possibly cause serious injury.

Always dispose of used battery packs in compliance with all applicable laws and regulations. Put insulating tape, such as cellophane tape, on the electrode during transportation to avoid a possible short circuit, fire or electric shock. Failure to do so could possibly result in serious injury.

▲ WARNING

Always use the battery pack supplied as an accessory or an equivalent battery pack specified in the User's Manual. Other battery packs have different voltage and terminal polarities. Use of non-conforming battery packs could generate smoke or cause fire or rupture, possibly resulting in serious injury.

After repeated use, the batteries will finally lose their ability to hold a charge and you will need to replace them. Under certain applicable laws and regulations, it may be illegal to dispose of old batteries by placing them in the trash.

Please be kind to our shared environment. Check with your local government authority for details regarding where to recycle old batteries or how to dispose of them properly. If you cannot find the information you need elsewhere, call Toshiba at: (800) 457-7777.

Traveling tips

The environmental precautions listed in “[Selecting a place to work](#)” on page 41, also apply while traveling.

- ❖ Never leave your computer on a sunny ledge or in a place where it could get wet or covered in dust.
- ❖ Always travel with the computer in a carrying case. Toshiba offers a choice of carrying cases for the computer. They all provide plenty of extra space for manuals, power cables, and compact discs. Contact your authorized Toshiba representative for more information.



TECHNICAL NOTE: When traveling by air, you may be required to pass your notebook through airport security equipment. The X-ray equipment will not harm your computer.

NOTE

Before using your computer aboard an aircraft, make sure the Wi-Fi switch is set to the Off position if your computer has wireless LAN capability.

Chapter 4

Exploring Your Computer's Features

In this chapter, you will explore some of the special features of your Satellite® M40/M45 notebook computer.

Exploring the desktop

The desktop is the launching pad for everything you can do in the Windows® XP Professional operating system. You use its features to start programs, find documents, set up system components, and perform most other computing tasks.



HINT: The illustrated examples in this guide may appear slightly different from the screens displayed by your system. The differences are not significant and do not indicate any change in the functionality of your system.

Finding your way around the desktop

Your computer's desktop includes several standard features: icons, Start button, taskbar, system tray, and background pattern.



Sample Windows® XP operating system desktop

Icons

An icon represents a folder, file, or program that can be quickly activated by double-clicking the icon.

You can create a new desktop icon for any folder, file, or program by dragging the element's icon from its location in a window to the desktop area.

The icons initially displayed on your system desktop include:



Recycle Bin — Holds files you have deleted. You may be able to retrieve these files until you empty the Recycle Bin.



TECHNICAL NOTE: If you delete a file from a diskette, it does not go into the Recycle Bin. For more information on the Recycle Bin, see Windows online Help.



Internet Explorer — The Microsoft® browser that provides access to the Internet.

NOTE

If you place the cursor over an icon, a popup description of the file contents appears.

Your desktop may contain other icons depending on your configuration. See Windows® XP online help for more specific information on each icon and how to use it.

Start button

You use the Start button to:

- ❖ Start programs
- ❖ Access Microsoft® Windows® XP operating system update information
- ❖ Open documents
- ❖ Adjust system settings
- ❖ Find files
- ❖ Access Windows® Help
- ❖ Run programs
- ❖ Suspend system activity and shut down the computer

Taskbar

Each time you open a program, a button associated with that program appears on the taskbar. With some programs, a button appears on the taskbar for each document or window you open. You can use these buttons to quickly switch between the programs or windows.

To make a program or window the currently active one, click the associated taskbar button.

System tray

The System tray displays icons of tasks or programs that run continuously in the background. To learn more about each task, position the cursor over the icon for a few moments and a short description of the task appears.

Typical tasks in the System tray are Current time, Power usage mode, Mouse properties, and speaker volume.

To activate a specific task, double-click the appropriate System tray icon.

Setting up for communications

To connect to the Internet, use an online service, or communicate across the telephone lines with another computer, you need:

- ❖ A modem (one comes with your Satellite® M40/M45 computer)
- ❖ A telephone line
- ❖ A browser or communications program
- ❖ An Internet Service Provider (ISP) or online service if you plan to use the Internet

Determining the COM port

Your modem is connected to one of the computer's COM (communications) ports. The default setting for the modem is COM3.

The following procedure is intended to support you if you need to either upgrade your modem or reset the port to the default settings.

If you are having trouble connecting through the modem, you may need to determine the current COM port name and possibly change it.

To find out which port your modem is connected to:

- 1 Click **Start, Control Panel**.
- 2 Click **Printers and Other Hardware**.
- 3 Click **Phone and Modem Options**.

The **Phone and Modem Options** Properties dialog box displays.

- 4 Fill in the **Local Information** text boxes and click **OK**.
- 5 Click the **Modems** tab.

Your modem should be listed next to one of the computer's COM ports.

- 6 Make a note of the COM port number.
- 7 To verify that the modem is set up properly, select the modem you wish to check, and then click **Properties** to bring up the dialog box with information specific to that modem.

Windows XP communicates with the modem and displays identifying information reported by the modem. If Windows XP cannot communicate with the modem, it displays an error message. Consult the troubleshooting sections of your modem and Windows XP documentation.

- 8 Click **OK** to close the properties dialog box for that specific modem.
- 9 Click **OK** to close the Modem Properties dialog box.
- 10 Close the Control Panel.

Connecting the modem to a telephone line

Before you can use the modem, you must connect it to a standard voice-grade telephone line. For more information, see [“Connecting to a phone line” on page 145](#).

Connecting your computer to a network

You can connect your computer to a network to increase its capabilities and functionality using one of its communication ports.

Accessing a network

To access a network:

- ❖ At the office, connect an Ethernet cable to the RJ45 jack on your computer. For specific information about connecting to the network, consult your network administrator.
- ❖ While you are at home or traveling, you need a dial-up connection. Ask your network administrator for the telephone number of the network.

Setting up the connection

To set up an office connection, consult your network administrator for network settings and additional considerations.

To set up a dial-up connection, use the New Connection Wizard:

- 1 Click **Start** and point to **All Programs**.

- 2 Point to **Accessories**, then to **Communications**, and click **New Connection Wizard**.
- 3 Enter the phone number of your network connection and let the program dial the number.

The computer connects to the network.

Using the Ethernet LAN Port

When your computer starts, Windows attempts to contact a Dynamic Host Configuration Protocol (DHCP) server. If the computer is not connected to a network, it may pause a few minutes as it waits for a reply. To avoid this delay, you can reconfigure Windows to disable the LAN port.

To disable the LAN port:

- 1 Click **Start**, click **Control Panel**, then **Performance and Maintenance**.
- 2 Click the **System** icon, then click the **Hardware** tab, and then click the **Device Manager** button.
- 3 Select the appropriate network adapter.
- 4 Click **Actions**.
- 5 Select the **Properties** icon.
- 6 Select the **Do not use this device (disable)** option from the **Device usage** drop-down.
- 7 Click **OK**.

Your LAN port is now disabled.

To enable the Ethernet LAN port, repeat steps one through four. Select the **Use this device (enable)** check box, and click **OK**.

Setting up a wireless connection

For information on how to set up a wireless connection, refer to your wireless networking device documentation or your network administrator.

Using Wireless LAN Connectivity

NOTE

Wireless connectivity and some features may require you to purchase additional software, external hardware or services. Availability of public wireless LAN access points may be limited.

Your system may come with an optional wireless LAN module. This is a technology that expands wireless communication beyond networking equipment, and can connect many different kinds of electronic devices without the need for cables.

For information on how to set up a wireless connection, refer to your wireless networking device documentation or your network administrator.

To use your wireless communication, slide the wireless on/off switch to the On position.

NOTE

When the Wi-Fi antenna switch is on, the wireless indicator light located on the front of the computer will be lit.

For help with common Wi-Fi® networking problems, see [“Wireless networking problems” on page 195](#).

An overview of using the Internet

The following sections give a quick introduction to the Internet and some of its exciting features, under these headings:

- ❖ The Internet
- ❖ The World Wide Web
- ❖ Internet Service Providers
- ❖ Connecting to the Internet
- ❖ Surfing the Internet
- ❖ Internet features
- ❖ Uploading to, and downloading files from, the Internet

The Internet

The Internet is an association of thousands of networks and millions of computers around the world connected by communications lines. They all work together to share information.

The World Wide Web

The World Wide Web (or “Web”) is a subset of the Internet — a collection of interlinked documents (located on computers connected to the Internet) that work together using a specific Internet protocol called Hypertext Transfer Protocol (HTTP).

The World Wide Web offers information as text, images, audio, or video to be referenced from anywhere in the world. Special programs called Web browsers are specifically designed to work with HTTP. They make it easier to connect to a particular network address and send and receive information.

Internet Service Providers

To connect a computer directly to the Internet, many people and businesses use an Internet Service Provider (ISP). An ISP is a company that has the equipment and the telecommunication lines necessary to maintain an Internet connection.

You can connect to the Internet by using a telephone and modem or through other higher-speed communication methods such as Digital Subscriber Lines (DSL), cable, and satellite links.

Connecting to the Internet

To connect to the Internet, you need:

- ❖ A modem and telephone line, or a LAN connection
- ❖ A Web browser
- ❖ An Internet Service Provider (ISP) account

The Microsoft® Web browser Internet Explorer is automatically configured on your system so that when you first start it, it guides you through signing up for a new ISP account, or assists you in setting up your computer to work with your existing ISP.

Once you have established an ISP account, you can connect to the Internet.

- 1 Connect your computer's modem to a telephone line. For more information on connecting a modem, see [“Connecting your modem to a telephone line”](#) on page 144.



- 2 Start your Web browser. Have your modem dial the ISP's telephone number, and establish a connection with the ISP's computer.

If you are using your computer at the office, then you probably connect to the Internet through your company's network. See your network administrator about connecting to the Internet.

Surfing the Internet

Once connected to the Internet, the Web browser displays a home page, for example, your ISP's home page on the Internet or your company's Web site home page.

To visit a desired Web site, type in the Web address. The Web address, or Uniform Resource Locator (URL), is a unique identifier for that computer system linked to the Internet. Web addresses can also appear within a Web page's text, and are known as links. Clicking a link automatically transfers your Web browser to that site.

You can also use a Search Engine, a Web site specifically designed to help you look for information.

Internet features

The Internet offers many types of communication tools to help you perform many tasks.

❖ **Internet email**

To send and receive email of your own, you need a mailbox on the Web or an email address.

If you have an account with an ISP, you can probably set up an email address at the same time you sign up for the service.

❖ **Internet chat rooms**

A chat room is a Web site that offers a place where people with similar interests and ideas communicate in real-time, one-on-one or in groups, by typing messages which are instantly viewed by others on their computer screens.

❖ **Internet news groups**

A news group is similar to a chat room, but instead of using a dedicated site to converse about a specialized subject with others in real-time, it uses a Web site as a

clearinghouse where all the messages are placed, like a gigantic bulletin board.

❖ **Online shopping**

Many Web sites offer products and services for sale.

Uploading to, and downloading files from, the Internet

Transferring files from one computer to another is termed uploading (transferring data from your computer to a site on the Web), or downloading (transferring data from a site on the Web to your computer).

There are several ways to upload or download data. It can be as simple as attaching a file or document to an email, or you can use the File Transfer Protocol (FTP) features of your Web browser to transfer large amounts of data.

Exploring audio features

You can use your computer to record sounds using an external microphone. You can play .wav sound files or audio CDs using the built-in speakers, headphones, or external speakers.

Playing an audio CD

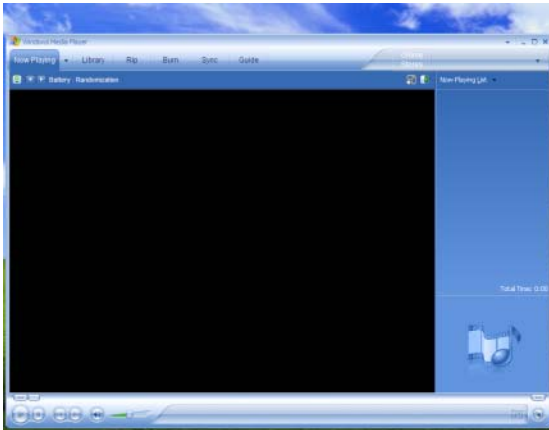
Insert an audio CD and close the disc tray.

If the computer is turned on, Windows Media® Player opens and the CD begins to play. You can use the Windows Media Player program to control the CD.

To access the Windows Media Player, you can open it through the Start menu or activate it from the taskbar.

NOTE

When using Windows Media Player, your system may not be able to activate Standby or Hibernation modes. To prevent this from occurring, close Windows Media Player before you select Standby or Hibernation mode.



Sample Windows Media® Player screen

The CD Player control panel works much like an ordinary compact disc player:

- ❖ To play the CD or to pause, click the **Play/pause** button on the CD Player control panel.
- ❖ To stop the CD, click the **Stop** button.

CAUTION

Before putting on headphones to listen to an audio CD, turn the volume dial down, and do not set the volume too high when using the headphones. Continuous exposure to loud sound can harm your hearing.

Playing CDs using Auto-Run

If you insert a CD into the DVD-ROM/multi-function drive and the Auto-Run feature does not automatically start your disc, try launching the CD manually. To do this, follow these steps:

- 1 Click **Start, My Computer**.
- 2 Click the DVD-ROM/multi-function drive icon.

The disc drive will run the CD.

If your disc does not run using this method, try using an application that is associated with the media on the disc. For example, if it is a music CD, open Windows® Media Player and point it to play the CD. For other types of media, use the associated software to open the files on the disc.

Creating a CD

Depending on your DVD configuration, your computer may come with a multi-function drive that allows you to:

- ❖ Play pre-recorded DVDs
- ❖ Play pre-recorded CDs
- ❖ Read and write data (depending on your system configuration) and music files to CD-Recordable (CD-R) and CD-Rewritable (CD-RW) discs; and DVD±R/±RW or DVD RAM discs.

NOTE

Copy protection technology included in certain media may prevent or limit recording or viewing of the media.

For details on how to use the software, please refer to the respective Online Help menus.

Recording sounds

You may record sounds as .wav files by connecting an external microphone or other sound source to the microphone jack.

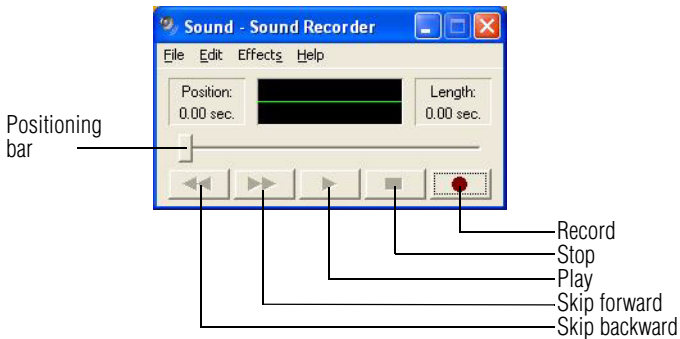


TECHNICAL NOTE: If you record MP3 files, you will only be able to play them on a device capable of playing MP3 files.

Using a microphone



- 1 Connect an external microphone to the computer.
- 2 Click **Start**, point to **All Programs, Accessories, Entertainment**, then click **Sound Recorder**.



Sample Sound Recorder screen



- 3 Click the **Record** button.

- 4 Speak normally into the microphone.



- 5 When you have finished recording, click the **Stop** button.

The Sound Recorder window displays the new sound file as a waveform.

NOTE You can only record 60 seconds at a time.



6 To hear what you just recorded, click the **Play** button.

7 To save the file, select **Save** from the **File** menu.

NOTE The microphone on your computer might be set to Mute. To check this, click Start, point to All Programs, Accessories, Entertainment, and then click Volume Control.

Using external speakers or headphones

Your computer is equipped with a full stereo sound system with internal speakers. Instead of using the internal speakers, you can connect headphones or a pair of external stereo speakers.



TECHNICAL NOTE: Use amplified speakers that require an external power source. Other types of speakers will be inadequate to produce sound from the computer.

To play back sound files through external speakers or headphones:



- 1** Locate the headphone jack on the computer.
- 2** Using any necessary adapters, plug the cable from the headphones or external speakers into the headphone jack.

The headphone jack requires a 16-ohm stereo mini-jack.

CAUTION

Before putting on headphones to listen to an audio CD, turn the volume dial down, and do not set the volume too high when using the headphones. Continuous exposure to loud sound can harm your hearing.

To adjust the volume:

- ❖ For external speakers, use the volume controls on each speaker.
- ❖ For headphones, use the computer's volume control dial.

Inserting and removing PC Cards

Your Satellite® M40/M45 computer comes with one PC Card slot and supports two types of PC Cards:

- ❖ Type I cards—You can install one of these cards.
- ❖ Type II cards—You can install one of these cards.

Inserting a PC Card

NOTE

Use caution when lifting or turning your computer. Failure to do so may result in damage to components, such as cables, attached to your computer, or to the computer itself.

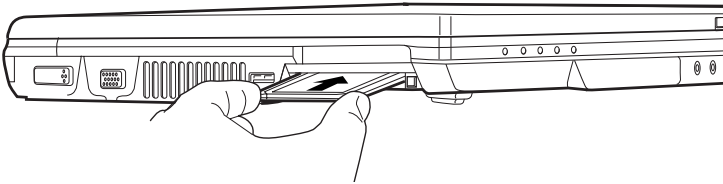
Before you insert a PC Card, refer to the documentation that comes with the card to see if you need to do anything before you insert it.

To insert a PC Card:

- 1 Turn off the computer.

You may also hot swap a PC Card. Stop the PC Card by clicking the **Safely Remove Hardware** icon on the System tray. After the PC Card is stopped, it is safe to remove.

- 2 Locate the PC Card slot on the left side of the computer.
- 3 Insert the PC Card.



Sample inserting a PC Card

- 4 When the card is almost all the way into the slot, push firmly, but gently, to ensure a firm connection with the computer. Do not force the card into position.

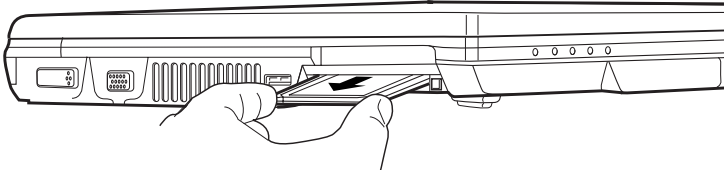
Removing a PC Card

Stop the PC Card by clicking the **Safely Remove Hardware** icon on the System tray. After the PC Card is stopped, it is safe to remove.

- 1 Locate the PC Card ejection button.
- 2 Press the PC Card eject button once to extend it, and push it in to remove the PC Card.

The PC Card ejects slightly from the slot.

- 3 Grasp the edges of the PC Card and slide it out of the slot.



Sample removing a PC Card

Setting up a PC Card for your computer

Some PC Cards are ready to use as soon as you install them. Others, such as hard disk cards, network cards, and SCSI adapters, may need to be set up to work with your computer. To set up your PC Card, refer to the documentation that came with the card or refer to your operating system manual or online help.

Inserting and removing the PCI Express Card

Your Satellite® M40/M45 computer comes with one PCI Express Card slot.

Inserting a PCI Express Card

NOTE

Use caution when lifting or turning your computer. Failure to do so may result in damage to components, such as cables, attached to your computer, or to the computer itself.

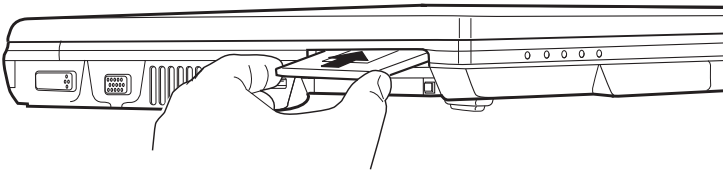
Before you insert a PCI Express Card, refer to the documentation that comes with the card to see if you need to do anything before you insert it.

To insert a PCI Express Card:

- 1 Turn off the computer.

You may also hot swap a PCI Express Card. Stop the PCI Express Card by clicking the **Safely Remove Hardware** icon on the System tray. After the PCI Express Card is stopped, it is safe to remove.

- 2 Locate the PCI Express slot just above the PC Card slot on the left side of the computer.
- 3 Insert the PCI Express Card.



Sample inserting a PCI Express Card

- 4 When the card is almost all the way into the slot, push firmly, but gently, to ensure a firm connection with the computer. Do not force the card into position.

Removing a PCI Express Card

Stop the PCI Express Card by clicking the **Safely Remove Hardware** icon on the System tray. After the PCI Express Card is stopped, it is safe to remove. Press the card until it pops out, and then remove it.

Using the Bridge Media Adapter Slot

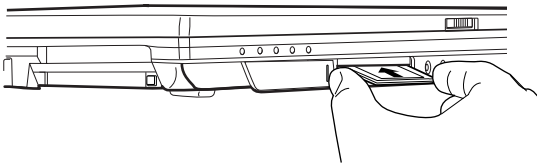
Your computer is equipped with a Bridge Media Adapter Slot, which supports the use of Memory Stick™ or Memory Stick™ PRO media, Secure Digital™ (SD™) Cards, SmartMedia™ or xD-Picture Cards. This media can be used with a variety of digital products: digital music players, cellular phones, PDAs, digital cameras, digital video camcorders, etc.

NOTE Do not use the Copy Disk function for this type of media. To copy data from one media to another, use the drag-and-drop feature of Windows.

Inserting memory media

The following instructions apply to all media devices.

- 1 Turn the media so that the contacts (metal areas) are face down.
- 2 Push the media into the adapter until it locks in place.



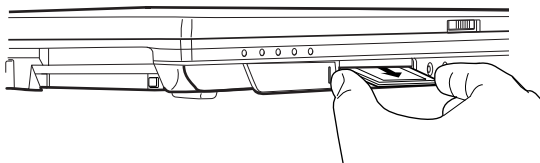
Sample inserting memory media

CAUTION

When inserting memory media, do not touch the metal contacts. You could expose the storage area to static electricity, which can destroy data.

Removing memory media

- 1 Right-click the Safely Remove Hardware icon on the System tray. After the media is stopped, it is safe to remove.
- 2 Grasp the card and pull it straight out.



Sample removing memory media

CAUTION

Do not remove memory media while data is being written or read. Even when the Windows message “copying...” disappears, writing to the media might still be in progress and your data could be destroyed. Wait for the indicator light to go out.

Connecting your modem to a telephone line

Your computer comes with a built-in modem that can be connected to a standard voice-grade telephone line.

The modem allows you to:

- ❖ Access the Internet.
- ❖ Communicate with your office's local area network (LAN) or larger corporate wide area network (WAN).

For specific information about connecting to a LAN or WAN, consult your network administrator.

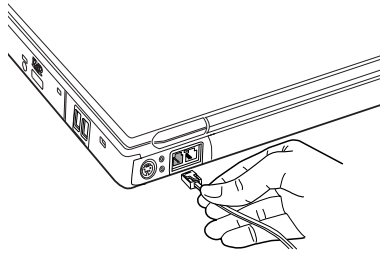
- ❖ Send a fax directly from your computer.

For more detailed information regarding your computer's modem, visit Toshiba's Web site at accessories.toshiba.com.

Connecting to a phone line

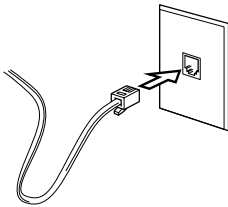
Before you can communicate using the modem, you need to connect it to a telephone line. Your computer's built-in modem port provides an RJ-11 jack, allowing you to connect the modem to a standard voice-grade telephone line.

- 1 Plug one end of a telephone cable (purchased separately) into the modem port on the back of the computer.



Sample connecting the telephone cable to the modem port

- 2 Connect the other end to the RJ-11 wall jack.



Sample connecting to a wall jack

CAUTION

The modem is designed for use with a standard analog telephone line. Do not connect the modem to a digital telephone line. A digital line will damage the modem.

Now you are ready to send a fax or use the modem to connect to an online service or the Internet.

For more information on using a modem, see [“Setting up for communications” on page 126](#).

Chapter 5

Toshiba Utilities

Your computer includes several utilities designed to help you to reconfigure your system to best meet your individual needs. Together, these allow you to determine certain system details, set additional options, or change default options. This chapter describes the utilities supplied by Toshiba:

- ❖ Fn-esse®
- ❖ TOSHIBA Assist
- ❖ Hotkey utility
- ❖ TOSHIBA HW Setup
- ❖ TOSHIBA Power Saver
- ❖ Setting a user password
- ❖ Using a supervisor password
- ❖ TOSHIBA Zooming Utility
- ❖ TOSHIBA Touch and Launch utility

Fn-esse[®]

Desktop shortcuts and Toshiba's Fn-esse program provide quick ways to open programs, documents, and folders from within any Windows[®] program without using the Start menu. For more information on creating desktop shortcuts, refer to the operating system documentation that came with your computer.

This section describes how to use the Fn-esse program to quickly access your programs and files.

With Fn-esse, you can assign an Fn key combination to:

- ❖ Open a Windows[®] XP operating system program.
- ❖ Open a file in its associated program.
- ❖ Display a customized folder of programs and/or files from which to choose.

Fn-esse also has several keys, known as hot keys, that perform preassigned operations. For more information, see [“Hot Keys” on page 212](#).

You can assign any key that is not associated with a hot key or a keyboard overlay.

Starting Fn-esse[®]

Click **Start**, point to **All Programs**, **Toshiba**, **Utilities**, then click **Fn-esse**.

The Fn-esse keyboard appears.



Sample Fn-esse window

The keys are color-coded as follows:

- ❖ Available keys are dark gray with white letters.
- ❖ Assigned keys and keys associated with a popup list are shown on the Fn-esse keyboard in the selected color.
- ❖ Unavailable keys are light gray.

There are two ways to assign a key to open a program or document:

- ❖ Using drag-and-drop
- ❖ Using the keyboard or pointing device

The method most often used is drag-and-drop.

Using drag-and-drop to assign a key

To assign a key to a program or document:

- 1 Start both Fn-esse and Windows® Explorer (or the program supporting drag-and-drop).
- 2 Resize the Explorer window so that you can see both the Fn-esse keyboard and Explorer at the same time.
- 3 In the Explorer window, highlight the program or document file you wish to assign to a key.
- 4 Click and hold the primary button as you drag the highlighted item from Explorer to the key on the Fn-esse keyboard to which you want to assign it.
- 5 Release the primary button.

Fn-esse displays the Add/Edit Command dialog box with the Description, Command Line, and Working Directory fields automatically completed.

- 6 Click **OK** to close the Add/Edit Command dialog box with your key assignment in place.

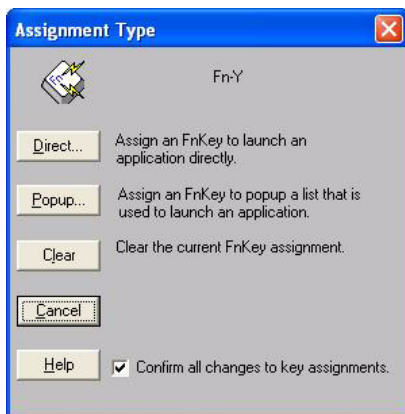
The program or document is now associated with the key you just selected. To open the program or document, press Fn plus the appropriate key from within any Windows program.

Using the keyboard or pointing device to assign keys

To assign a key to open a program or document, start Fn-esse and either:

- ❖ Using the keyboard, press and hold the Fn key, then press the desired assignment key.
- ❖ Using the pointing device, move the cursor over the desired key in the Fn-esse window and press the secondary button.

The Assignment Type dialog box appears.



Sample Fn-esse assignment type dialog box

Making a direct key assignment

- 1 Select **Direct...** to display the Add/Edit Command dialog box.
- 2 Enter the Description, Command Line, and Working Directory for the new Fn-esse key assignment, or click **Browse** to specify this information.
- 3 Click **OK**.

Making a popup assignment

- 1 Select **Popup...** to display the Application Explorer dialog box.
- 2 Select the desired folder. The left side of the Application Explorer window displays the folders in the Programs menu. The right side lists the programs and documents in the folder. These are the items that will appear in the popup list.
- 3 To create a popup list with items from various folders, or to pick only a few items from a folder, create a new folder containing only the desired programs and documents. If you are unsure how to do this, refer to your Windows® XP operating system documentation.
- 4 Click **OK** to associate the folder with the key you just selected.

To open a popup list showing the items in that folder, press Fn plus the appropriate key from within any Windows® program.

Viewing existing key assignments

To view the existing key assignments, choose **Assignments** from the Fn-esse keyboard. Fn-esse displays the Function Key Assignments dialog box. This box lists all the key assignments and the program or document to which each key is assigned.

To view items in a popup list, select the **Expand popup lists** check box.

Changing or removing existing key assignments

In the Fn-esse keyboard, click the key you wish to change with the secondary button.

Fn-esse displays the Assignment Type dialog box.

- ❖ To change the key assignment, click **Direct...** or **Popup...** and continue as if you were creating a new assignment.
- ❖ To remove the key assignment, click **Clear**.

TOSHIBA Assist

The TOSHIBA Assist provides quick access to computer functions and allows you to customize a range of computer settings.

To access the control panel:

- 1 Click **Start, All Programs, Toshiba, Utilities**, then click **Toshiba Assist**.

The TOSHIBA Assist window appears.



Sample TOSHIBA Assist window

The TOSHIBA Assist offers four categories of features:

- ❖ Connect
- ❖ Secure
- ❖ Protect & Fix
- ❖ Optimize

Connect

The Connect category features [Connectivity Doctor](#).

Secure

The features available in this category are:

- ❖ [Using a supervisor password](#)
- ❖ [Setting user passwords](#)

Protect & Fix

The Protect & Fix category features the [PC Diagnostic Tool](#).

Optimize

The features available in this category are:

- ❖ [TOSHIBA Power Saver](#)
- ❖ [Mouse utility](#)
- ❖ [Hotkey utility](#)
- ❖ [TOSHIBA HW Setup](#)
- ❖ [TOSHIBA Zooming Utility](#)
- ❖ [TOSHIBA Touch and Launch utility](#)
- ❖ [SD Memory Card Format](#)
- ❖ [Hotkey assignment using Fn-esse®](#)
- ❖ [Toshiba Button Controls](#)
- ❖ [ConfigFree](#)
- ❖ [CD/DVD Drive Acoustic Silencer](#)

Setting user passwords

Setting a password leaves your computer secure so that nobody can access your files. You must enter the password before you can work on your computer.

Toshiba supports several types of passwords on your computer:

- ❖ An instant password — Secures your open programs and files when leaving the computer temporarily.
- ❖ A power-on password — Prevents unauthorized users from starting or restarting the computer.
- ❖ A supervisor password — Prohibits unauthorized users from accessing certain functions such as Toshiba Hardware Setup. This is useful if more than one person uses the computer.

A single user password supports the instant and power-on password functions.

When setting up the various passwords, keep the following in mind:

- ❖ The user password can be set up under the supervisor password.
- ❖ The supervisor password must be set before the user password, or the user password must be deleted and then re-entered after the supervisor password is set.

Using an instant password

An instant password secures your system with a single keystroke. Use this feature when you leave your desk for a few minutes and do not want to turn off the computer.

To use an instant password, press Fn, then press F1. This freezes the keyboard and TouchPad, and blanks the screen. An instant password has no effect on an optional USB mouse or trackball.

To unlock your system, press **Enter** and the Windows Logon screen will appear. Select your user name and enter your password, if any.

Setting a user password

To register a password for the power-on password functions:

- 1 Click **Start, All Programs, Toshiba, Utilities**, then click **Toshiba Assist**.

The TOSHIBA Assist window appears.

- 2 On the left side, select **Secure**.
- 3 Select the **User Password** icon.
- 4 Click **Registered**.
- 5 Type your password in the **Password** box.
- 6 Retype your password in the **Password** again box.
- 7 Click **OK**.

Disabling a user password

To cancel the power-on password function:

- 1 Click **Start, All Programs, Toshiba, Utilities**, then click **Toshiba Assist**.

The TOSHIBA Assist window appears.

- 2 On the left side, select **Secure**.
- 3 Select the **User Password** icon.
- 4 Select **Not Registered**.
- 5 Type the correct password.
- 6 Click **OK**.

Using a supervisor password

A supervisor password prevents other users from changing hardware configuration options.

Setting a supervisor password

CAUTION

If you choose to set a supervisor or user password, Toshiba strongly recommends that you save your password in a location where you can later access it should you not remember it.

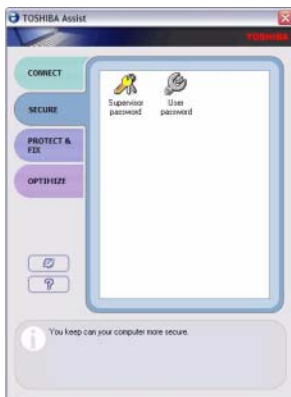
Toshiba is not responsible for any losses that may occur to you, your organization or others as a result of the inability to access the computer.

To register a password for the power-on password functions:

- 1 Click **Start, All Programs, Toshiba, Utilities**, then click **Toshiba Assist**.

The TOSHIBA Assist window appears.

- 2 On the left side, select **Secure**.



Sample TOSHIBA Assist Security window

- 3 Select the **Supervisor Password** icon.
- 4 Click **Registered**.
- 5 Type your password in the **Supervisor Password** box.
- 6 Retype your password in the **Supervisor Password** again box.
- 7 Click **OK**.

Deleting a supervisor password

To cancel the power-on password function:

- 1 Click **Start, All Programs, Toshiba, Utilities**, then click **Toshiba Assist**.

The TOSHIBA Assist window appears.

- 2 On the left side, select **Secure**.
- 3 Select the **Supervisor Password** icon.
- 4 Select **Not Registered**.
- 5 Type the correct password.
- 6 Click **OK**.

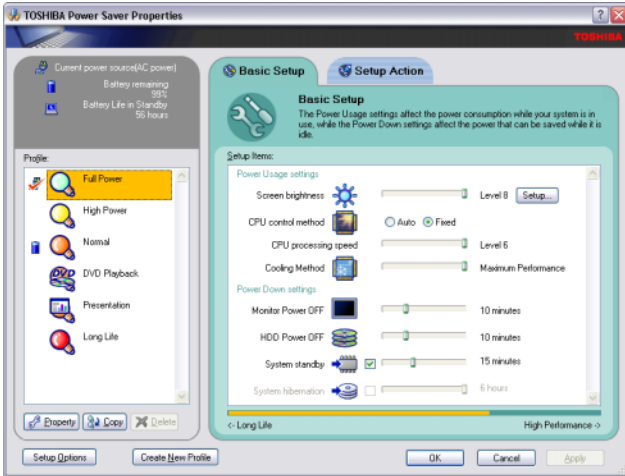
TOSHIBA Power Saver

The TOSHIBA Power Saver feature enables you to control your computer's power usage, regardless of the source, and use the many preset power modes, or create one yourself.



To access Power Management through the TOSHIBA Assist, double-click the **Power Management** icon.

The TOSHIBA Power Saver Properties window appears.



Sample TOSHIBA Power Saver Properties window

The Power Properties window shows the power profiles, which are optimized for several different working environments.

You can either use one of the preset modes or create and use your own customized profile. The preset profiles cannot be deleted.

By changing the options that appear in the Toshiba Power Saver Properties window and clicking **OK**, you can reconfigure that function. Any options that you change become effective when you click either **OK** or **Apply**.

Profiles

This section lists the preset profiles along with the estimated battery life for each mode. The preset profiles are:

- ❖ Full Power
- ❖ High Power
- ❖ Normal
- ❖ DVD Playback
- ❖ Presentation
- ❖ Long Life

Although you can change the properties for any of these profiles, this is not recommended. If you need a customized profile, create a new profile with the properties you require.

The DVD Playback profile applies only when a DVD program is playing on battery power.

Quickly creating a new power mode

- 1 Highlight one of the preset profiles.
- 2 Click **Copy**.
- 3 A new mode appears with the title “*Copy of Name*” where *Name* is the title of the mode you copied. You can change the name, description, or icon for this profile by clicking **Property**.

Customizing a power mode

- 1 Highlight the profile you want to modify.
- 2 Change the settings you want on the **Basic Setup** tab.
- 3 You may also change settings on the **Setup Action** tab. Keep in mind however, that by default, these actions will apply to all profiles.

Mouse utility

The Mouse utility allows you to change your TouchPad or mouse settings. To access the Mouse utility through the TOSHIBA Assist, click the **Mouse** icon.

Hotkey utility

The Hotkey utility allows you to receive a confirmation message when you use the Hotkey combination for Standby [Fn+F3] and Hibernation [Fn+F4].

To activate:

- 1 From the TOSHIBA Assist screen, click **Optimize**, and then click the **Hotkey Utility** option. You can also click **Start, All Programs, Toshiba, Utilities**, then click the **Hotkey** utility.

The Hotkey window appears.



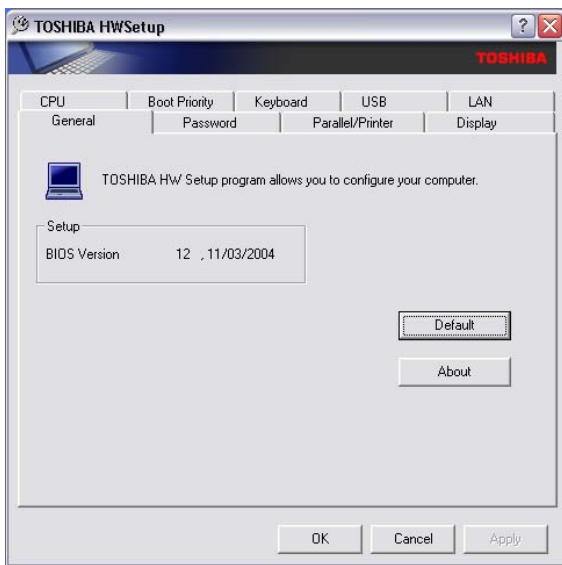
Sample Toshiba Hotkey utility window

- 2 Select the desired option.
- 3 Click **OK**.

TOSHIBA HW Setup

TOSHIBA HW Setup is the Toshiba configuration management tool available through Windows. To access it, click **Start**, **Control Panel**, then click **Printers and Other Hardware**. Then click the **Toshiba HWSetup** icon.

You can also access it from the TOSHIBA Assist screen by clicking **Optimize**, and then **TOSHIBA HW Setup**.



Sample TOSHIBA HWSetup window

The tabs represent various dialog boxes. They are:

- ❖ **General**—Allows you to view current BIOS, hard disk drive and memory settings.
- ❖ **Password**—Allows you to set or reset a user password for the power-on process and for instant security.
- ❖ **Parallel/Printer**—Allows you to configure the parallel port default settings (if applicable to your system).

- ❖ **Display**—Allows you to change various default settings for the built-in LCD display.
- ❖ **Boot Priority**—Allows you to change the sequence in which your computer searches the drives for the operating system.
- ❖ **Keyboard**—Allows you to configure an external PS/2 keyboard to emulate the Fn function key and access the wake-on keyboard function.
- ❖ **USB**—Allows you to enable or disable USB Legacy Emulation.
- ❖ **LAN**—Allows you to set networking functions.

By changing any of the options that appear in the dialog boxes and clicking **Apply**, you can reconfigure that function. Any options that you change will become default settings when you restart your system.

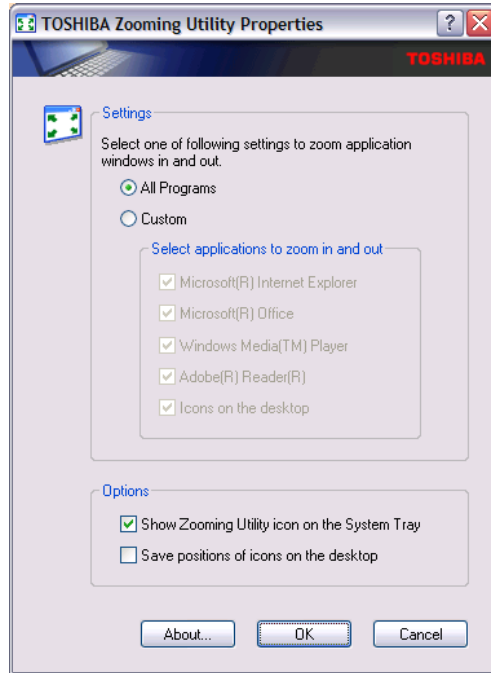
TOSHIBA Zooming Utility

This application allows you to zoom in or out of a specific list of applications (see below). You may select either the All Programs option that enables all of the listed applications or Custom option that allows you to select any one or all of the following programs:

- ❖ Microsoft Internet Explorer
- ❖ Microsoft Office
- ❖ Windows Media Player
- ❖ Adobe Reader
- ❖ Icons on the desktop

To configure the Toshiba Zooming Utility, double-click the **Toshiba Zooming Utility** on the task bar.

The TOSHIBA Zooming utility screen appears.



Sample TOSHIBA Zooming Utility Properties screen

To zoom in, hold down the Fn key and press 2; to zoom out, hold down the Fn key and press 1.

TOSHIBA Touch and Launch utility

TOSHIBA Touch and Launch is a program that adds features to the TouchPad. For example, by selecting an icon you can:

- ❖ Open a document
- ❖ Launch a program
- ❖ Show a list of windows and switch the active window
- ❖ Open Internet Explorer favorites

TOSHIBA Touch and Launch is like a miniature Windows® desktop. You can personalize TOSHIBA Touch and Launch to help you work more efficiently.

To activate TOSHIBA Touch and Launch, touch and hold your finger on a corner of the TouchPad. The TOSHIBA Touch and Launch window appears.



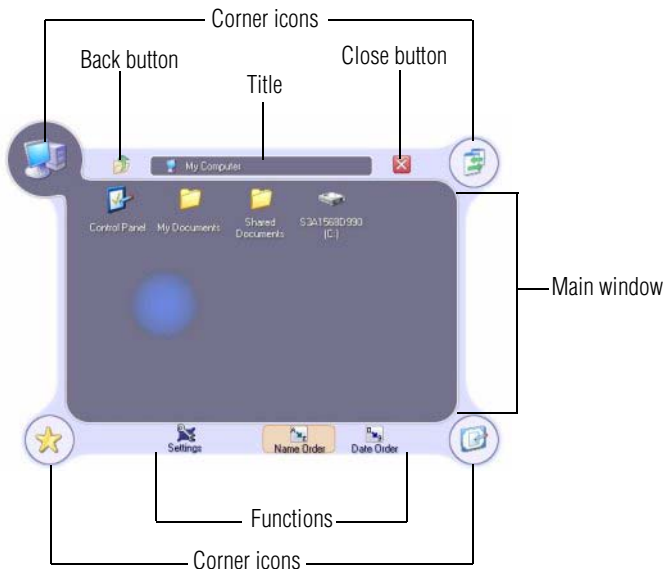
Sample TOSHIBA Touch and Launch window

A blue circle within the TOSHIBA Touch and Launch window represents your finger location on the TouchPad. As you move the blue circle over an icon in the TOSHIBA Touch and Launch window, the icon is highlighted or selected. Release your finger from a selected icon to choose the icon's function.

If the icon is highlighted in orange and selected, the function corresponding to the selected icon launches and the TOSHIBA Touch and Launch window closes. If the icon is highlighted in blue and selected, the function corresponding to the selected icon launches and the TOSHIBA Touch and Launch window remains open.

To close the TOSHIBA Touch and Launch window, release your finger when the blue circle is not on any icon. Or, highlight the Close icon in the upper right area of the TOSHIBA Touch and Launch window.

The TOSHIBA Touch and Launch window has the following parts:



Sample parts of the TOSHIBA Touch and Launch window

A short description of the currently selected corner icon appears below the TOSHIBA Touch and Launch window.

The title and functions can change when you select one of the corner icons.

The type and number of icons you see in the main part of the TOSHIBA Touch and Launch window are determined by which corner icons you select.

TOSHIBA Touch and Launch is controlled/adjusted via an icon on the system tray. The icon will change color when the TOSHIBA Touch and Launch is active. Double-click the icon to open the TOSHIBA Touch and Launch Settings window. Right-click the icon to see the following shortcuts:

❖ Settings

The Settings function allows you to define the functions/features you can access in TOSHIBA Touch and Launch

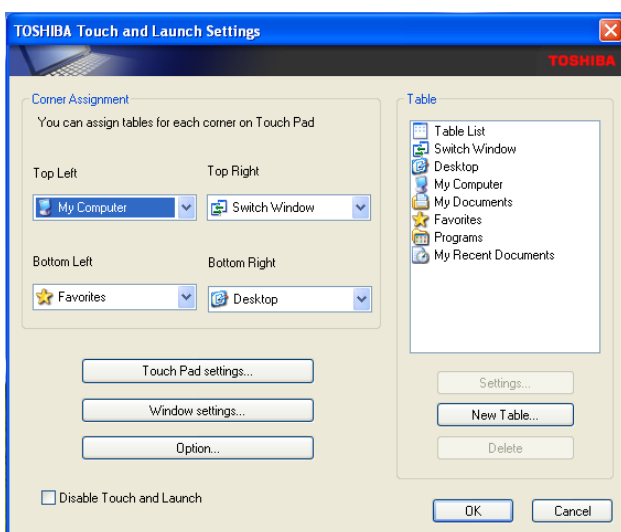
❖ Disable/Enable

❖ Help

❖ About

TOSHIBA Touch and Launch Settings

When you choose the Settings shortcut menu entry, the TOSHIBA Touch and Launch Settings window appears.



Sample TOSHIBA Touch and Launch Settings window

In the Corner Assignment section you can change the icons you see at the four corners of the TOSHIBA Touch and Launch window using the drop-down list boxes. The icons are referred to as tables in the TOSHIBA Touch and Launch Settings dialog box.

The TouchPad settings button allows you to define how sensitive the TouchPad will be to your finger on the TouchPad before it activates the TOSHIBA Touch and Launch window.

The Window settings button allows you to control the size and transparency of the TOSHIBA Touch and Launch window.

The Option button allows you to define how folders will open, define visual effects and control when to show help.

A list of tables appears in the Table section of the TOSHIBA Touch and Launch Settings window. These are the same items (icons) you can choose in the Corner Assignment section of the TOSHIBA Touch and Launch Settings. As you select a table, the Settings button may become active. Not all tables have settings.

The New Table button allows you to create a new table.

The Delete button deletes the selected table.

Disabling or enabling TOSHIBA Touch and Launch

You can set or clear the Disable TOSHIBA Touch and Launch check box in the TOSHIBA Touch and Launch Settings window in order to disable or enable this feature. You can also use the TOSHIBA Touch and Launch icon on the system tray.

Chapter 6

If Something Goes Wrong

Some problems you may encounter when using your computer are relatively easy to identify and solve. Others may require help from your network administrator or the manufacturer of a software program.

This chapter aims to help you solve many problems by yourself. It covers the problems you are most likely to encounter.

If all else fails, contact Toshiba. You will find information on Toshiba's support services at the end of this chapter.

Problems that are easy to fix

Your program 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).

The Windows Task Manager window appears.

- 2 Click the **Applications** tab.

If a program has stopped responding, the words “not responding” appear beside its name in the list.

- 3 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.

- 4 Close the remaining programs one by one by selecting the program name, then **End Task**.

To power off your computer, do one of the following:

If you are not connected to a domain server:

- 1 Click **Start, Turn off computer**.

The Turn off computer window appears.

- 2 Click **Turn Off**.

The computer turns off.

If you are connected to a domain server:

- 1 Click **Start, Shut down**.

The Shut Down window appears.

- 2 Select **Shut down** from the drop-down list.

- 3 Click **OK**.

The computer shuts down completely.

Your program performs an illegal operation.

If you receive the message, “Your program has performed an illegal operation,” close the window and continue working. If it happens again, record the details of the message and consult the software manufacturer.

To record the details:

- 1 Click the **Details** button and select the text the operating system displays.
The Details button displays information that the software manufacturer needs to help you solve your problem.
- 2 Press Ctrl and c simultaneously to copy the text to the clipboard.
- 3 Open Notepad (click **Start, All Programs, Accessories** and then click **Notepad**).
- 4 Press Ctrl and v simultaneously to paste the details into Notepad.
- 5 Add a paragraph break and type some notes describing what you were doing when you received the message and how the error can be reproduced.
- 6 Save the file and refer to it when you contact the software manufacturer.

Problems when you turn on the computer

These problems may occur when you turn on the power.

The computer will not start.

Make sure you attached the AC adapter and power cord/cable properly or installed a charged battery.

Press and hold the power switch for at least 10 seconds.

If you are using the AC adapter, 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 on/off indicator. If the indicator is glowing, the computer is on.

If you are using an AC adapter, verify that the computer is receiving power from the external power source by looking at the AC power light. If the indicator is glowing, the computer is connected to a live external power source.

The computer starts but when you press a key nothing happens.

Verify that the active program accepts text input. Try clicking your mouse on an area where you can type text, and try typing again.

Your computer may be in Standby mode and have a software or resource conflict. When this happens turning the power on returns you to the problem instead of restarting the system. To clear the condition, press Ctrl, Alt, and Del simultaneously.

Clearing the condition may get the computer running, but it will not solve a resource conflict. Read the documentation that came with the conflicting device and [“Resolving a hardware conflict”](#) on page 175.

The computer is not accessing the hard disk or the optional external diskette drive.

Your computer normally loads the operating system from the hard disk. If you have a hard disk problem, you will not be able to start the computer. Insert a system diskette into the optional external diskette drive and press F12 when the machine starts and use the arrow keys to select the boot-up device.

The computer displays the WARNING RESUME FAILURE message.

The computer was placed in Standby mode and the battery has discharged. Data stored in the computer’s memory has been lost. Data stored in the computer’s hard drive may not be affected.

Always save your data even when you are using Standby. If your battery fully discharges, information that has not been saved will be lost. Your computer can be configured to warn you when the battery is running low see [“What to do when the main battery runs low”](#) on page 112.

If you are running on battery power, it is recommended that you do not leave the computer in Standby mode for long periods of time.

To charge the battery, leave the computer plugged into a live wall outlet for several hours. For more information see [“Changing the main battery” on page 116](#).

The computer displays the Non-System disk or disk error message.

Make sure there is no diskette in the optional external diskette drive. If there is a diskette in the drive, remove it and press any key to continue. If pressing any key does not work, press Ctrl, Alt, and Del to restart the computer. For more information see [“The computer is not accessing the hard disk or the optional external diskette drive.” on page 171](#).

The Windows® operating system is not working

Once you are familiar with the desktop and used to the way the operating system responds to your work routine, you can easily detect if the operating system is not working correctly. For example:

- ❖ The operating system fails to start after the Starting Windows XP message appears.
- ❖ The operating system takes a long time to start.
- ❖ The operating system responds differently from the normal routine.
- ❖ The screen does not look right.

Unless a hardware device has failed, problems usually occur when you change the system in some way such as installing a new program or adding a device.

If you experience any of these problems, use the options in the Startup menu to fix the problem.

Using Startup options to fix problems

If the operating system fails to start properly, you may have to change your system's configuration or verify the startup procedure to fix the problem. To do this, use the options in the Startup menu.

To open the Startup menu:

- 1 Restart your computer.
- 2 Press F8 when your computer starts and before Windows starts loading.

The Windows® Advanced Options menu displays these options:

- ❖ Safe Mode
- ❖ Safe Mode (with Networking)
- ❖ Safe Mode (with Command Prompt)
- ❖ Enable Boot Logging
- ❖ Enable VGA Mode
- ❖ Last known good configuration (your most recent settings that worked)
- ❖ Directory Services Restore Mode (Windows® domain controllers only)
- ❖ Debugging Mode
- ❖ Start Windows® normally
- ❖ Reboot
- ❖ Return to OS Choices (menu)

See your Windows® documentation for further explanation.

NOTE

If your computer is connected to a network, the Startup menu may display different versions of Safe mode.

Internet problems

My Internet connection is very slow.

Many factors contribute to the speed with which you can surf the Internet. They include: modem speed, telephone line conditions, time of day (when everyone else is surfing, your access can be slow) and popularity of the sites you are trying to access. If accessing a particular site is very slow, try later.

My browser cannot find the URL address I typed in.

Make sure you separated the domain names of the address with the forward slash (/). Check the spelling of each name and the syntax of the address carefully. A single incorrect letter or missed character will make it impossible for your browser to locate the site.

My browser cannot find a site I bookmarked.

The World Wide Web is constantly changing. A site you bookmarked yesterday may not be available today or its server may be down for temporary repair. Try again later.

The Windows® XP operating system can help you

If the operating system has started properly but you still have a problem using your computer, the online Help can assist you in troubleshooting the problem.

To access Windows® XP Help and Support:

1 Click **Start**, then click **Help and Support**.

The Help and Support window appears.

2 Then do one or both of the following:

- ❖ In the search field, type in the topic for which you need help and follow the on-screen instructions.
- ❖ Click a problem you would like help with from the listings and follow the on-screen instructions.

You can connect to Support Online by clicking **Support** from the menu or by going to pcsupport.toshiba.com.

Resolving a hardware conflict

If you receive an error message telling you there is a device driver conflict or a general hardware problem, try using Windows® Help and Support to troubleshoot the problem first.

For help on hardware conflicts:

- 1 Click Start, then click **Help and Support**.
- 2 Click the **Hardware** link in the window's left pane.
A list of category links appear.
- 3 Click the **Fixing a hardware problem** link.
- 4 Choose from specific topics and follow the steps.

If there is still a problem, the operating system should display a message that explains what the conflict is.

A plan of action

The smooth operation of the system depends on the interaction of all devices, programs, and features. If the system or one of its attached devices is not working, resolving the problem can be time-consuming and frustrating.

The recommended procedure for getting multiple devices to work together is to add and set up one device at a time. After you add each device, test it to make sure it and all previously connected devices work.

The device most recently connected to the system is the one most likely to be causing a hardware conflict.

Resolving hardware conflicts on your own

Computer components need resources to accomplish a task. A device, such as a disk drive or a modem, needs a channel to the computer's Central Processing Unit (CPU). It also needs a direct channel to the computer's memory to store information as it works. These channels of communication are commonly referred to as system resources.

Interrupt Request Channel

The channel to the CPU is called an Interrupt Request (IRQ) because it interrupts what the processor is doing and requests some of the processor's time. If two or more devices use the same IRQ, the processor does not know which device is asking for attention. This causes a hardware conflict.

Direct Memory Access

Similarly, the data required by the device is stored in a specific place or address in memory called the Direct Memory Access (DMA). The DMA provides a dedicated channel for adapter cards to bypass the microprocessor and access memory directly. If two or more devices use the same DMA, the data required by one device overwrites the data required by the other, causing a hardware conflict.

Plug and Play

With Plug and Play and the operating system, avoiding hardware conflicts is easy. Plug and Play is a computer standard that helps the system BIOS (basic input/output system) and the operating system to automatically assign system resources to Plug and Play-compliant devices. In theory, if every device connected to the computer is Plug and Play-compliant, no two devices will compete for the same system resources. Plug in the device and turn on your computer. The operating system is automatically set up to accommodate the new device.

If you install an older (legacy) device that the operating system cannot recognize, the operating system may have difficulty assigning resources to it. As a result, a hardware conflict can occur.

Resolving conflicts

There are several things you can do to resolve hardware conflicts:

- ❖ Get the most recent drivers from the manufacturer.
- ❖ Disable the device.
For an older device, remove it from the computer.
- ❖ Disable another system component and use its resources for the new device. See [“Fixing a problem with Device Manager” on page 177](#).
- ❖ Reconfigure the device so that its requirements do not conflict. Refer to the device’s documentation for instructions about changing settings on the device.

Fixing a problem with Device Manager

Device Manager provides a way to check and change the configuration of a device.

CAUTION

Changing the default settings using Device Manager can cause other conflicts that make one or more devices unusable. Device Manager is a configuration tool for advanced users who understand configuration parameters and the ramifications of changing them.

Disabling a device

- 1 Click **Start, Control Panel**, then click **Performance and Maintenance**.
- 2 Click the **Administrative Tools** icon.
- 3 Double-click **Computer Management**, then click **Device Manager**.
- 4 Select the specific device from the device category. To expand a device category, double-click the category.
- 5 In the toolbar, look to the far right for an icon of a monitor with a strike mark through a circle on the front. This is the disable feature.
- 6 Click the icon.
You are given the option of disabling the device.
- 7 Click **Yes** to disable the device or **No** to cancel.

Checking device properties

Device Manager provides a way to view the properties of a device. Properties include the name of the manufacturer, the type of device, the drivers installed, and the system resources assigned to the device.

To check a device's properties:

- 1 Click **Start, Control Panel**, then click **Performance and Maintenance**.
- 2 Click the **Administrative Tools** icon.
- 3 Double-click **Computer Management**, then click **Device Manager**.
- 4 To view the device(s) installed, double-click the device type.
- 5 To view the properties, double-click the device.

The operating system displays the Device Properties dialog box, which provides an array of tabs. They may include:

- ❖ The **General** tab, which provides basic information about the device.
- ❖ The **Resource** tab, which lists resources assigned to the monitor, optional external DVD-ROM, optional external diskette drive, and other power-using functions. This tab does not appear if the device is not using resources.
- ❖ The **Driver** tab, which displays the drivers being used by the device.

The tabs that appear in the dialog box vary from one device to another. A Troubleshooting button is also present.

6 Click **Troubleshoot...**

A Help and Support window for that device appears.

For more information about Device Manager, refer to Windows® XP online help.

Memory problems

Incorrectly connected or faulty memory modules may cause errors that seem to be device-related. It is worthwhile checking for these first:

- 1** Click **Start, Turn off computer.**
- 2** Click **Turn Off.**

The operating system shuts down and turns off the computer automatically.

- 3** Remove the memory module, following the instructions in [“Removing a memory module” on page 61](#).
- 4** Reinstall the memory module, following the instructions in [“Installing a memory module” on page 55](#), and making sure the module is seated properly.

-
- 5 Check for the error again.
 - 6 If the error recurs, remove the memory module entirely and check for the error again.

If removing the memory module eliminates the error, the memory module may be faulty. If the error recurs without the memory module installed, the error is not caused by the memory module.



TECHNICAL NOTE: You must have at least one memory module installed for the computer to work.

Power and the batteries

Your computer receives its power through the AC adapter and power cord/cable or from the system batteries (battery, optional high-capacity battery and real-time clock (RTC) battery). Power problems are interrelated. For example, a faulty AC adapter or power cord/cable will neither power the computer nor recharge the batteries.

Here are some typical problems and how to solve them:

The AC power light does not come on when you plug in the AC adapter and power cord/cable.

Make sure the AC adapter and power cord/cable are firmly plugged into both the wall outlet and the computer.

If the AC power light still does not come on, check that the wall outlet is working properly by plugging in a lamp or other appliance.

The AC adapter and power cord/cable work correctly, but the battery will not charge.

The battery does not charge while the computer is consuming full power. Try turning off the computer.

The battery may not be inserted correctly in the computer. Turn off the computer, remove the battery, clean the contacts with a soft dry cloth (if necessary) and replace the battery. See “[Removing the battery from the computer](#)” on page 116.

The battery may be too hot or too cold to charge properly. If you think this is the probable cause, let the battery reach room temperature and try again.

If the battery has completely discharged, it will not begin charging immediately. Leave the AC adapter and power cord/cable connected, wait 20 minutes and see if the battery is charging.

If the battery light is glowing after 20 minutes, let the computer continue charging the battery for at least another 20 minutes before you turn on the computer.

If the battery light does not glow after 20 minutes, the battery may have reached the end of its useful life. Try replacing it.

The battery appears not to power the computer for as long as it usually does.

If you frequently recharge a partially charged battery, it may not charge fully. Let the battery discharge completely, then try charging it again.

Check the power options using the Power Management utility. Have you added a device, such as a PC Card or memory module, that takes its power from the battery? Is your software using the hard disk more? Is the display power set to turn off automatically? Was the battery fully charged to begin with? All these conditions affect how long the charge lasts.

After a period of time, the battery will lose its ability to perform at maximum capacity and will need to be replaced. This is normal for all batteries. To purchase a new battery pack, see your accessories information that shipped with your computer, or visit the Toshiba Web site at accessories.toshiba.com. Refer to this site often to stay

current on the most recent software and hardware options for your computer, and for other product information.

For more information on maximizing battery power see [“Charging batteries” on page 107](#).

Keyboard problems

If, when you type, strange things happen or nothing happens, the problem may be related to the keyboard itself.

The keyboard produces unexpected characters.

A keypad overlay may be on. If the numlock light or cursor control mode light is on, press Fn and F10 simultaneously to turn off the cursor control mode light or Fn and F11 simultaneously to turn off the numlock light.

If the problem occurs when both the keypad overlays are off, make sure the software you are using is not remapping the keyboard. Refer to the software documentation and check that the program does not assign different meanings to any of the keys.

You have connected an external keyboard and the operating system displays one or more keyboard error messages.

The keyboard you connected may be defective or incompatible with the computer. Try using a different make of keyboard.

Nothing happens when you press the keys on the external keyboard.

You may have plugged the external keyboard in while the computer was turned on. Click **Start**, **Shut Down** or **Turn off computer**, and **Restart the computer** using the TouchPad on the internal keyboard. The computer will restart and recognize the device.

Display problems

Here are some typical display problems and their solutions:

The screen is blank.

Display Auto Off may have gone into effect. Press any key to activate the screen.

You may have activated the instant password feature by pressing Fn and F1 simultaneously. If you have registered a password, press any key, type the password and press Enter. If no password is registered, press any key. The screen reactivates and allows you to continue working.

If you are using the built-in screen, make sure the display priority is not set for an external monitor. To do this, press Fn and F5 simultaneously (once). If this does not correct the problem, press Fn and F5 simultaneously again to return the display priority to its previous setting.



HINT: Holding the Fn key and pressing the F5 key several times will advance you through the display options.

If you are using an external monitor:

- ❖ Check that the monitor is turned on.
- ❖ Check that the monitor's power cable is firmly plugged into a working power outlet.
- ❖ Check that the cable connecting the external monitor to the computer is firmly attached.
- ❖ Try adjusting the contrast and brightness controls on the external monitor.
- ❖ Press Fn and F5 simultaneously to make sure the display priority is not set for the built-in screen.

The screen does not look right.

You can change the display settings by clicking a blank area of the desktop with the secondary control button, then clicking **Properties**. This opens the Display Properties dialog box. The Appearance tab of this dialog box allows you to choose the colors for the screen. The Settings tab allows you to choose the screen resolution.

The built-in screen flickers.

Some flickering is a normal result of the way the screen produces colors. To reduce the amount of flickering, try using fewer colors.

To change the number of colors displayed:

- 1 Point at the desktop and click with the secondary button.
- 2 Click **Properties**, and then the **Settings** tab.
- 3 Change the Colors option and click **OK**.

For more information see Windows® Help.

A message tells you that there is a problem with your display settings and that the adapter type is incorrect or the current settings do not work with your hardware.

Reduce the size of the color palette to one that is supported by the computer's internal display.

To change the display properties:

- 1 Point at the desktop and click with the secondary button.
The Display Properties window appears.
- 2 Click **Properties**, then click the **Settings** tab.
- 3 Adjust the screen resolution and/or color quality.
- 4 Click **OK**.

The display mode is set to Simultaneous and the external display device does not work.

Make sure the external monitor is capable of displaying at resolutions of 800 x 600 or higher. Devices that do not support this resolution will only work in Internal/External mode, and not simultaneous mode.

Small bright dots appear on your TFT display when you turn on your computer.

Small bright dots may appear on your screen display when you turn on your PC. Your display contains an extremely large number of thin-film transistors (TFT) and is manufactured using high-precision technology. Any small bright dots that may appear on your display are an intrinsic characteristic of the TFT manufacturing technology. Over a period of time, and depending on the usage of the computer, the brightness of the screen will deteriorate. This is also an intrinsic characteristic of the screen technology. When the computer is operated on battery power, the screen will dim and you may not be able to increase the brightness of the screen while on battery power.

Disk drive problems

Problems with the hard disk or with a diskette drive usually show up as an inability to access the disk or as sector errors. Sometimes a disk problem may cause one or more files to appear to have garbage in them. Typical disk problems are:

You are having trouble accessing a disk, or one or more files appear to be missing.

Make sure you are identifying the drive by its correct name (A: or C:).

Error-checking

Run Error-checking, which analyzes the directories, files and File Allocation Table (FAT) on the disk and repairs any damage it finds:

To run Error-checking:

- 1 Click **Start**, then click **My Computer**.
- 2 Right-click the drive you want to check.
- 3 On the pop-up menu, click **Properties**.

The drive's Properties box appears.

NOTE

This feature is not available for CD/DVD drives.

- 4 Click the **Tools** tab.
- 5 Click the **Check now** button.
The Check Disk All Apps box appears.
- 6 You can choose one or both options:
 - ❖ Automatically fix file system errors
 - ❖ Scan for and attempt recovery of bad sectors
- 7 Click **Start**.

Error-checking tests and repairs the disk.

Your hard disk seems very slow.

If you have been using your computer for some time, your files may have become fragmented. Run Disk Defragmenter. To do this, click **Start**, then click **All Programs**, point to **Accessories** and **System Tools**, and click **Disk Defragmenter**.

Your data files are damaged or corrupted.

Refer to your software documentation for file recovery procedures. Many software packages automatically create backup files.

You may also be able to recover lost data using utility software. Consult your network administrator.

Some programs run correctly but others do not.

This is probably a configuration problem. If a program does not run properly, refer to its documentation and check that the hardware configuration meets its needs.

A diskette will not go into the optional external diskette drive.

You may already have a diskette in the drive. Make sure the drive is empty.

You may be inserting the diskette incorrectly. Hold the diskette with the hub side facing down, and insert it so that the metal head window cover goes into the drive first.

The metal cover or a loose label may be obstructing the path into the drive. Carefully inspect the diskette. If the metal cover is loose, replace the diskette. If the label is loose, replace the label and try inserting the diskette again.

The computer displays the Non-system disk or disk error **message.**

If you are starting the computer from a diskette, the diskette in the drive does not have the files necessary to start the computer. Replace it with a bootable diskette.

The drive cannot read a diskette.

Try another diskette. If you can access the second diskette, the first diskette (not the drive) is probably causing the problem. Run Error-checking on the faulty diskette (for instructions see [“Disk drive problems” on page 185](#)).

DVD-ROM or multi-function drive problems

You cannot access a disc in the drive.

If the DVD-ROM or multi-function drive is an external drive, make sure that the drive's cable is properly connected to the computer.

Make sure the tray which holds the CD-ROM or DVD-ROM is closed properly. Press gently until it clicks into place.

Open the tray and remove the disc. Make sure the tray is clean. Any dirt or foreign object can interfere with the laser beam.

Examine the disc to see if it is dirty. If necessary, wipe it with a clean cloth dipped in water or a neutral cleaner.

Replace the disc in the tray. Make sure that the disc is lying flat, label side uppermost. Close the tray carefully, making sure it has shut completely.

You press the disc eject button, but the drive tray does not slide out.

Make sure the computer is connected to a power source and turned on. The DVD-ROM drive eject mechanism requires power to operate.

Make sure a program is not accessing the drive and preventing it from ejecting.

If you need to remove a disc and cannot turn on the computer (for example, if the battery is completely discharged), use a narrow object, such as a straightened paper clip, to press the manual eject button. This button is in the small hole next to the DVD-ROM eject button on the face of the DVD-ROM tray.

CAUTION

Never use a pencil to press the manual eject button. Pencil lead can break off inside the computer and damage it.

Some discs run correctly but others do not.

Check the type of disc you are using. The DVD-ROM drive supports the Digital Versatile Disc (DVD) formats DVD-ROM, DVD-R (read-only), plus CD-ROM, CD-R (read-only), and CD-RW (read-only).

If the problem is with a data CD or DVD, refer to the software's documentation and check that the hardware configuration meets the program's needs.

The disc will not come out of the drive when you click the eject button on the screen.

Press the button on the DVD-ROM drive itself. For additional information see [“You press the disc eject button, but the drive tray does not slide out.”](#) on page 188.

Sound system problems

You do not hear any sound from the computer.

Adjust the volume control.

Try pressing Fn + Esc to see if volume mute is disabled.

If you are using external headphones or speakers, check that they are securely connected to your computer.

The computer emits a loud, high-pitched noise.

This is feedback between the microphone and the speakers. It occurs in any sound system when input from a microphone is fed to the speakers and the speaker volume is too loud. Adjust the volume control.

PC Card problems

PC Cards (PCMCIA-compatible) include many types of devices, such as a removable hard disk, additional memory, or a pager.

Most PC Card problems occur during installation and setup of new cards. If you are having trouble getting one or more of

these devices to work together, several sections in this chapter may apply.

Resource conflicts can cause problems when using PC Cards. See [“Resolving a hardware conflict”](#) on page 175.

Card Information Structure

When you insert a PC Card into a slot, the computer attempts to determine the type of card and the resources it requires by reading its Card Information Structure (CIS). Sometimes the CIS contains enough information for you to use the card immediately.

Other cards must be set up before you can use them. Use the Windows® XP PC Card (PCMCIA) Wizard to set up the card. Refer to your Microsoft® documentation for more information, or refer to the documentation that came with the PC Card.

Some card manufacturers use special software called *enablers* to support their cards. Enablers result in nonstandard configurations that can cause problems when installing the PC Card.

If your system does not have built-in drivers for your PC Card and the card did not come with an operating system driver, it may not work under the operating system. Contact the manufacturer of the PC Card for information about using the card under the operating system.

PC Card checklist

- ❖ Make sure the card is inserted properly into the slot.
- ❖ Make sure all cables are securely connected.
- ❖ Occasionally a defective PC Card slips through quality control. If another PCMCIA-equipped computer is available, try the card in that machine. If the card malfunctions again, it may be defective.

Resolving PC Card problems

Here are some common problems and their solutions:

The slot appears to be dead. PC Cards that used to work no longer work.

Check the PC Card status:

- 1** Click **Start**.
- 2** Click **My Computer** icon with the secondary button, then click **Properties**.

The System Properties dialog box appears.

- 3** Click the **Hardware** tab.
- 4** Click the **Device Manager** button.
- 5** Double-click the **PCMCIA adapter**.
- 6** Double-click the appropriate PC Card.

The operating system displays your PC Card's Properties dialog box, which contains information about your PC Card configuration and status.

The computer stops working (hangs) when you insert a PC Card.

The problem may be caused by an I/O (input/output) conflict between the PCMCIA socket and another device in the system. Use Device Manager to make sure each device has its own I/O base address. See [“Fixing a problem with Device Manager” on page 177](#) for more information.

Since all PC Cards share the same socket, each card is not required to have its own address.

Hot swapping (removing one PC Card and inserting another without turning the computer off) fails.

Follow this procedure before you remove a PC Card:

- 1 Double-click the **PC Card** icon on the taskbar.
- 2 Click **Safely remove xxxx**, where *xxxx* is the identifier for your PC Card.

The operating system displays a message that you may safely remove the card.

- 3 Remove the card from the slot.
-

CAUTION

Never swap modules when the computer is in Hibernation or Standby mode. This is known as “warm swapping” and is not supported with this computer. For more information on Hibernation and Standby modes see [“Using Hibernation” on page 99](#) and [“Using Standby” on page 101](#).

The system does not recognize your PC Card.

Refer to the PC Card documentation.

Removing a malfunctioning card and reinstalling it can correct many problems.

A PC Card error occurs.

Reinsert the card to make sure it is properly connected.

If the card is attached to an external device, check that the connection is secure.

Refer to the card’s documentation, which should contain a troubleshooting section.

Printer problems

This section lists some of the most common printer problems:

The printer will not print.

Check that the printer is connected to a working power outlet, turned on and ready (on line).

Check that the printer has plenty of paper. Some printers will not start printing when there are just two or three sheets of paper left in the tray.

Make sure the printer cable is firmly attached to the computer and the printer.

Run the printer's self-test to check for any problem with the printer itself.

Make sure you installed the proper printer drivers as shown in [“Setting up a printer” on page 71](#) or in the instructions that came with the printer.

You may have connected the printer while the computer is on. Disable Standby mode, turn off the computer, and turn off the printer. Turn the printer back on, make sure it is on line, then turn the computer back on.

Try printing another file. For example, you could create and attempt to print a short test file using Notepad. If a Notepad file prints correctly, the problem may be in your original file.

If you cannot resolve the problem, contact the printer's manufacturer.

The printer will not print what you see on the screen.

Many programs display information on the screen differently from the way they print it. See if your program has a print preview mode. This mode lets you see your work exactly as it will print. Contact the software manufacturer for more information.

Modem problems

This section lists common modem problems:

The modem will not receive or transmit properly.

Make sure the cable from the modem to the telephone line is firmly connected to the computer's modem port and the telephone line jack.

Check the port settings to make sure the hardware and software are referring to the same COM port. See [“Determining the COM port” on page 127](#).

Check the communications parameters (baud rate, parity, data length and stop bits) specified in the communications program. It should be set up to transmit at 300, 1200, 2400, 4800, 9600, 14400, 28800, 33600 bps (bits per second) or higher. Refer to the program's documentation and the modem manual for information on how to change these settings.

The modem is on, set up properly and still will not transmit or receive data.

Make sure the line has a dial tone. Connect a telephone handset to the line to check this.

The other system may be busy or off line. Try making a test transmission to someone else.

For more information regarding your system's V.92 modem, visit the Toshiba web site at pcsupport.toshiba.com.

Wireless networking problems

NOTE

This section provides general troubleshooting tips for networking problems, specifically wireless (Wi-Fi) networking.

The terms and concepts used assume a basic understanding of networks, and may be for more advanced users. If you need assistance or if you are not familiar with the terminology, please see Windows Help and Support or contact your computer technician.

- ❖ If your computer is equipped with an internal Wi-Fi adapter, verify that the Wi-Fi antenna switch is on (the light next to the wireless antenna on/off switch will be lit.)

NOTE

To determine if your computer has an internal Wi-Fi adapter, check the device list in Device Manager (part of the Windows Control Panel). Some Toshiba models may have a Wi-Fi antenna switch even though they do not have an internal Wi-Fi adapter.

- ❖ Verify that signal strength is good using the utility provided with the Wi-Fi adapter.
- ❖ If another computer is on the same network, verify that it has network access, and can connect to the Internet. If, for example, the other computer cannot browse to a public website, the ISP's (Internet Service Provider) service may be disrupted.
- ❖ Verify that the Service Set Identifier (SSID), or network name, is correct—i.e., that it matches the SSID assigned to the access point you are attempting to connect through. SSIDs are case-sensitive. Toshiba provides a Client Manager utility for setting and managing SSIDs.

- ❖ Check Control Panel's Device Manager to verify that the Wi-Fi adapter is recognized by Windows®, and that the driver is loaded. Carefully note any error messages—these will be very helpful if you should confer with a support technician at a later time.
- ❖ Verify that the network connection is configured to obtain its Internet Protocol (IP) address dynamically:
 - 1 Click **Start, Control Panel**.
 - 2 Double-click **Network Connections**.
 - 3 Right-click the name of your wireless network connection, then click **Properties**.
 - 4 Select **Internet Protocol (TCP/IP)**, then click **Properties**.
 - 5 Select **Obtain an IP address automatically**.
 - 6 Click **OK**, then click **Close**.
- ❖ Use IPCONFIG to verify that the computer has a useful IP address—one other than the private address of 169.254.xxx.xxx assigned by Windows.
 - ❖ Click **Start**, then click **Run...**
 - ❖ Enter **Cmd** and press **Enter**.
 - ❖ Enter "**IPCONFIG /ALL**" and press **Enter**.
 - ❖ The IP address for each active network adapter will be displayed.
- ❖ Connect your computer directly to your router or broadband modem, by plugging a standard CAT5 Ethernet patch cable (sold separately) into your computer's RJ45 Ethernet port. If your connection problem disappears, the problem lies in the Wi-Fi part of your network.

-
- ❖ Use the PING command to verify a connection to the gateway at 192.168.1.1 (a default gateway for most wireless routers).
 - ❖ Click **Start**, then click **Run...**
 - ❖ Enter **Cmd** and press **Enter**.
 - ❖ Enter **PING 192.168.1.1** at the command prompt, and press **Enter**.
 - ❖ If “Request Timed Out” or another error message appears in response, then the problem is probably Wi-Fi-related.
 - ❖ If you have enabled any security provisions (closed system, MAC address filtering, Wired Equivalent Privacy (WEP), etc.), check the access point vendor's website for recent firmware upgrades. Problems with WEP keys, in particular, are frequently addressed in new firmware releases.

Special considerations for Windows® XP

Wired Equivalent Privacy (WEP) encryption is not enabled on the wireless access point.

When you install a wireless access point device, Windows XP checks whether WEP encryption is enabled on the device. If it is not enabled, Windows XP adds the device to its list of available wireless networks, but does not create a wireless connection using the device, since the connection would not be secure. You can still, however, use the access point. To use an access point without WEP encryption, follow these steps:

- ❖ Right-click the Wireless Network icon in the System Tray (far-right portion of the Windows Taskbar).
- ❖ Click **View Available Wireless Networks**.
- ❖ Select **Allow me to connect to the selected wireless network, even though it is not secure**.
- ❖ Windows XP will now try to establish a wireless connection.

The Windows XP wireless management facility does not work.

If you are using an external Wi-Fi adapter (a PC Card, USB adapter, or other variety), check if the adapter comes with its own management utility. If it does, the utility may be disabling the Windows XP wireless management facility, in which case you must use the adapter's management utility. If the documentation that accompanies the adapter does not provide enough information to determine if this is the case, contact that vendor's support group for further advice.

DVD operating problems

If you experience a problem playing DVDs, you may be able to fix the problem yourself.

- 1 If using an external DVD-ROM or multi-function drive, make sure the drive's cable is properly connected to the computer.
- 2 Verify that the disc is in a format that the drive supports.
- 3 Ensure that the disc is properly inserted in the drive tray.
- 4 Ensure that the Display properties are not True Color (24-bit). If it is set to 24-bit color, there may be a video format error. To verify your display settings:
 - ❖ Click **Start, Control Panel, Appearance and Themes**, and double-click **Display**.
 - ❖ Click on the **Settings tab** and check the **Color Palette**. It should be set to **High Color** (16-bit).
 - ❖ If it is not set to High Color, change the settings to **16-bit color** and click **OK**.
- 5 Clean the disc and try again.

A dirty drive can also cause audio problems. If you have tried several discs and all fail, consider sending your drive to an authorized service provider to get it cleaned.

- 6 Verify that your computer recognizes your DVD-ROM drive. To do this:
Double-click the **My Computer** icon on the desktop. The DVD-ROM drive should appear in the list.
- 7 See “[Checking device properties](#)” on page 178 for instructions on using Device Manager to view the DVD-ROM properties.
- 8 Check the Toshiba Web site for new information on DVD-ROM drives and their operation.

A blank screen appears while watching a DVD-ROM movie or title.

Disable the Shut off Monitor feature in the Display Properties using the following steps:

- 1 Click the secondary mouse button on a blank area of the desktop.
- 2 Click **Properties**.
- 3 Click the **Screen Saver** tab.
- 4 Deselect **Shut off Monitor**.

Jumping video lines appear around the DVD-ROM video window.

To change the screen’s display resolution:

- 1 Click **Start, Control Panel**.
The Control Panel window appears.
- 2 Click **Appearance and Themes**, and double-click the **Display** icon.
The Display Properties dialog box appears.
- 3 Click the **Settings** tab.
- 4 Next to the words **Desktop Area**, move the slider to a lower setting, such as 800 x 600 or 640 x 480.

- 5 Click **OK**.

DVD titles, games, or applications appear distorted.

Having Stretch enabled when your video resolution is set to 640 x 480 or 800 x 600 can cause distortion. To disable Stretch, follow the instructions below:

- 1 Right-click the **Desktop**, select **Properties**.
- 2 Select the **Settings** tab.
- 3 Select the **Advanced Flat Panel** tab.
- 4 Click **Disable Display Stretch Feature**.
- 5 Click **OK**.

The screen saver runs while you are watching a movie or title.

If the screen saver is enabled, it runs on top of any movie or title you are watching. To disable the screen saver:

- 1 Click **Start, Control Panel**.

The Control Panel window appears.

- 2 Click **Appearance and Themes**, and double-click the **Display** icon.

The Display Properties dialog box appears.

- 3 Click the **Screen Saver** tab.

In the Screen Saver list, the current screen saver is highlighted.

- 4 Click the down arrow at the right of the current screen saver name.

A list of screen savers displays.

- 5 Click and hold the up arrow by the list or move the slide to the top.
- 6 Click **None**.

7 Click OK.

Develop good computing habits

Save your work frequently.

You can never predict when your computer will lock, forcing you to close a program and lose unsaved changes. Many software programs build in an automatic backup, but you should not rely solely on this feature. Save your work! See [“Computing tips” on page 76](#) for instructions.

On a regular basis, back up the information stored on your hard disk.

Here are some ways you can do this:

- ❖ Copy files to diskette.
- ❖ Connect a tape drive to the system and use specialized software to copy everything on the hard disk to a tape.
- ❖ Connect your computer to the office network and copy files to your network partition.

Some people use a combination of these methods, backing up all files to tape weekly and copying critical files to diskette on a daily basis.

If you have installed your own programs, you should back up these programs as well as your data files. If something goes wrong that requires you to reformat your hard disk and start again, reloading all your programs and data files from a backup source will save time.

Read the user’s guides.

It is very difficult to provide a fail-safe set of steps you can follow every time you experience a problem with the computer. Your ability to solve problems will improve as you learn about how the computer and its software work together.

Get familiar with all the user's guides provided with your computer, as well as the manuals that come with the programs and devices you purchase.

Your local computer store or book store sells a variety of self-help books you can use to supplement the information in the manuals.

Data and system configuration backup in Windows® XP

Windows XP offers some easy-to-use features for backing up your Windows settings and your data – documents and other important files. Take advantage of these features to protect yourself from much more difficult and time-consuming restoration procedures, and to safeguard your valuable data from loss.

Saving system configuration with Restore Points

The System Restore feature of Windows XP quickly creates Restore Points—‘snapshots’ of your Windows configuration—and saves them for later recall. If you experience problems after installing some new hardware or software, you can easily select a previously established Control Point to ‘turn back the clock,’ restoring Windows to the state it was in just prior to the installation. This is much easier and more effective than uninstalling the hardware or software, which often leaves behind unwanted files and settings. It is also easy to undo a Restore Point selection, if you change your mind.

Follow these steps to create a Restore Point using the System Restore utility:

- 1** Click **Start**.
- 2** Click **Help and Support**.
- 3** Under **Pick a Task**, click **Undo changes to your computer with System Restore**.
- 4** Click **Create a restore point**, and then click **Next**.

-
- 5** In the **Restore point description** field, enter a name that is descriptive enough to be easily understood in the future, such as “Before installing Brand X Accounting app.” Then click **Create**.
 - 6** Windows creates the Restore Point and automatically stamps it with the current date and time.

Then, at a later time, you can re-establish your Windows configuration using the saved Restore Point. To do this:

- 1** Click **Start**.
- 2** Click **Help and Support**.
- 3** Under **Pick a Task**, click **Undo changes to your computer with System Restore**.
- 4** Click **Restore my computer to an earlier time**, then click **Next**.
- 5** A calendar will be presented, showing a month at a time. Each date for which a Restore Point has been set will be marked as bold. When a boldfaced date is clicked, a description of the Restore Point will appear in a list to the right.

NOTE This list may contain Restore Points that you did not create. Restore Points labeled System Checkpoint were automatically created by Windows XP. Other Restore Points may have been created automatically by applications when they were installed.

- 6** Select the desired Restore Point from the list, and then click **Next**.
- 7** Your Windows configuration will now be restored to the state it was in when the chosen Restore Point was created.

Backing up your data to CDs with Windows® XP

For most of us, by far the most valuable component of our computer system is the data we have created with it, and stored on its hard disk drive. Since problems with either hardware or software can make the data inaccessible or even destroy it, the next most valuable component of your computer system may be a recent backup of your data.

Fortunately, Windows XP offers a convenient way to back up your important data files to CDs, a relatively high-capacity storage media. No additional software is required. Most of the CD and DVD drives built into recent Toshiba portable computer models can write to (or ‘burn’) as well as read from CDs. External CD and DVD writers are also widely available.

Follow these steps to back up files in the **My Documents** folder to one or more CDs:

- 1 Put a blank CD-R (CD-recordable) disc into the computer’s CD or DVD drive.
- 2 A menu of options will appear. Select **Open writable CD folder using Windows Explorer**, and click **OK**.
- 3 A Windows Explorer window will open for the blank CD. This window will be referred to as “the CD window.”
- 4 Open a second Windows Explorer window, by clicking **Start**, then **My Computer**.
- 5 In this second window, browse to the files you wish to back up. Click the down-pointing arrow at the upper right of the window (to the left of the **Go** button) to see a list of locations that includes **My Documents**—a likely location of your data.
- 6 Drag and drop folders or individual files from this window into the CD window. If the files do not immediately appear in the CD window, press **F5** (or click **View, Refresh**) to prompt Windows to display them.

-
- NOTE** Documents and other data files that you create as you work are typically stored in the My Documents folder. You may also wish to back up other important data files stored elsewhere on your hard disk drive, for example:
- ❖ E-mail files and settings—for Outlook, Outlook Express, or other e-mail apps. Visit the vendors' Web sites (www.microsoft.com, for example) for detailed instructions.
 - ❖ Newsgroup files and settings—for Outlook Express, or other newsgroup readers. Visit the vendors' Web sites for detailed instructions.
 - ❖ Other data files. If you do not find an application's data files in any of the folders within the My Documents folder, check the application's options or preferences settings to discover the locations of the files.
-

- 7** When you have finished copying files to the CD window, click **File, Write these files to CD**.
- 8** A CD Writing Wizard will appear, prompting for a name for the CD. You may accept the default name, or enter a new (more descriptive) name. Click **Next** to continue.
- 9** The CD Writing Wizard will now write the selected files to the CD. It is best not to use the computer for any other tasks during this operation, so as not to interrupt it.
- 10** Finally, click **Finish**. The CD will be ejected. It should contain all of the files you have selected, but you may easily verify this by placing the CD back into the drive, and viewing the list of files.

Favorites (bookmarks) for Internet Explorer and other Web browsers

Follow these steps to back up your Favorites for Internet Explorer (ver 5.0 or newer):

- 1 In Internet Explorer, click **File, Import and Export**.
- 2 The Import/Export Wizard will appear. Click **Next**.
- 3 Click **Export Favorites, Next**. (To restore the Favorites to the hard disk drive later you would select **Import Favorites** from this list.)
- 4 A list of your Favorites folders will appear, with the top-level Favorites folder selected (highlighted). Click **Next** to back up all of your Favorites, or select a particular Favorites folder to back up, then click **Next**.
- 5 In the Export Favorites Destination window, use the Browse button to browse to the **My Documents** folder. Click **Save** in the Select Bookmark file window, and then click **Next**.
- 6 Click **Finish**. The message “**Successfully exported favorites**” should appear.
- 7 Follow the steps above for backing up files from the **My Documents** folder to a CD.

Each CD has room for 650-700 megabytes of data. Follow this same set of steps any number of times to back up any number of files to as many CDs as is required to hold them.

Windows XP also includes a Backup utility, though it does not directly support writing to CDs. For more information, click **Start, Help and Support**, or start the Backup utility by clicking **Start, All Programs, Accessories, System Tools, Backup**.

General tips for installing hardware and software

Here are a few tips to help insure safe and easy installation of new hardware (printers, pointing devices, external hard drives, DVD writers, scanners, etc.) and software (applications like Microsoft Office and Adobe Photoshop, or utility software such as special toolbars for your web browser).

- ❖ Create a Restore Point (see [“Saving system configuration with Restore Points” on page 202](#)). Before installing anything, use the System Restore utility to set a Restore Point (see the section titled Restore Points). If anything goes wrong, you will then be able to easily restore Windows to the state it was in prior to the installation, undoing any changes the installation process introduced.
- ❖ Back up your critical data (see [“Backing up your data to CDs with Windows® XP” on page 204](#)).
- ❖ Have your factory Restore/Reconfiguration CD(s) on hand in case you need any files from them.
- ❖ Do not guess; follow directions carefully! It is often necessary to run an installation utility first—before connecting a new hardware item to the computer. If the device is connected first, it may be very difficult to complete the installation successfully. Always carefully follow the installation instructions that accompany the hardware or software.
- ❖ Restart Windows. Always restart Windows after each installation, even if the installation utility does not prompt you to do so. This will insure that the installation is completed, and will clean up anything that the installation utility left behind.
- ❖ Do one installation at a time. If you have several new items to add to your computer system, install just one at a time, creating Restore Points immediately before each successive installation. This will make it much easier to

determine the origin of any new problems. For best results, follow this sequence:

- 1 Back up critical data.
- 2 Create a Restore Point.
- 3 Install one item of hardware or software.
- 4 Restart Windows.
- 5 Use the new hardware or software for a while, noting any new problems. Make sure that your critical applications (e-mail, business apps, etc.) are working correctly, and verify that important devices are still functioning.
- 6 For each additional hardware or software item, repeat these steps, starting at step 1 if any of your critical data has changed, or starting at step 2 if no critical data has changed.

If you need further assistance

If you have followed the recommendations in this chapter and are still having problems, you may need additional technical assistance. This section contains the steps to take to ask for help.

Before you contact Toshiba

Since some problems may be related to the operating system or the program you are using, it is important to investigate other sources of assistance first.

Try the following before you contact Toshiba:

- ❖ Review the troubleshooting information in your operating system documentation.
- ❖ If the problem occurs while you are running a program, consult the program's documentation for troubleshooting suggestions. Contact the software company's technical support group for their assistance.

-
- ❖ Consult the dealer from whom you purchased your computer and/or program. Your dealer is your best source for current information.

Detailed system specifications are available at www.ts.toshiba.com by selecting your particular product and model number, clicking **GO**, and then clicking the **Detailed Specs** link from the menu on the left, or just refer to the computer documentation shipped with your product.

For the number of a Toshiba dealer near you in the United States, call: (800) 457-7777.

Contacting Toshiba

If you still need help and suspect that the problem is hardware-related, Toshiba offers a variety of resources to help you.

Toshiba's Technical Support Website

For technical support, or to stay current on the most recent software and hardware options for your computer, and for other product information, be sure to regularly check the Toshiba Web site at pcsupport.toshiba.com.

Toshiba voice contact

Before calling Toshiba, make sure you have:

- ❖ Your computer's serial number
- ❖ The computer and any optional devices related to the problem
- ❖ Backup copies of your Windows® operating system and all other preloaded software on your choice of media
- ❖ Name and version of the program involved in the problem along with its installation media
- ❖ Information about what you were doing when the problem occurred

- ❖ Exact error messages and when they occurred

For technical support, call the Toshiba Global Support Centre:

Within the United States at (800) 457-7777

Outside the United States at (949) 859-4273

Other Toshiba Internet Web sites

toshiba.com	Worldwide Toshiba corporate site
computers.toshiba.com	Marketing and product information in the USA
accessories.toshiba.com	Accessories information in the USA
www.toshiba.ca	Canada
www.toshiba-Europe.com	Europe
www.toshiba.co.jp/index.htm	Japan
http://servicio.toshiba.com	Mexico and all of Latin America

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9740 Irvine Blvd.
Irvine, California 92618
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800-457-7777 (within the US)

949-859-4273 (outside of the US -
this call may incur long-distance
charges)

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Edificio Europa, 1a Planta
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Henares
Spain

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Sierra Candela No.111, 6to. Piso
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United Kingdom

Toshiba Information Systems
(U.K) Ltd.
Toshiba Court
Weybridge Business Park
Addlestone Road
Weybridge, Surrey KT15 2UL
United Kingdom

The Rest of Europe

Toshiba Europe (I.E.) GmbH
Hammfelddamm 8
D-4-1460 Neuss
Germany

For more information on additional Toshiba worldwide
locations, please visit: www.toshiba.co.jp/index.htm.

Appendix A

Hot Keys

Hot keys are keys that, when pressed in combination with the Fn key, turn system functions on and off. Hot keys have a legend on the key indicating the option or feature the key controls.

Volume Mute

Fn +



This hot key enables/disables volume mute on your computer.

When volume mute is enabled, no sound will come from the speakers or headphones.

Password security

Fn +  This hot key blanks the display.

Without a password

The Fn + F1 key combination turns off the display and activates instant security. Using the pointing device or any key will make the display's content reappear, if no password is set for the current user.

With a password

The Fn + F1 key combination turns off the display and activates instant security.

If you set a blank screen saver, pressing the Fn + F1 key combination to activate instant security will cause the screen to go blank. Using the pointing device or any key will make the display's content reappear. The Windows® operating system log-on screen will appear, prompting you for a password. After typing in the password for the current user, press Enter.

To activate the password feature:

- 1 Click **Start, Control Panel**, then click **Appearances and Themes**.
- 2 Click one of the following:
 - ❖ **Choose a screen saver** in the “Pick a task” section
 - ❖ **Display** in the “or pick a Control Panel icon” section

The Display Properties window appears.

- 3 If you clicked **Choose a screen saver**, the Screen Saver tab has already been selected. If it is not selected, click the **Screen Saver** tab.
- 4 Click the **On resume, password protected** check box.
- 5 Click **OK**.

Maintaining security when the battery is not fully charged

When the battery is not fully charged (even if the computer is operating on AC power) your display may reappear automatically after a short time. To protect your desktop, you must set up a screen saver with a password before activating the password feature.

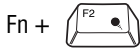
To set up a password with a screen saver, go to Windows XP help for instructions:

- 1 Click **Start, Help and Support**.
- 2 In the **Search** field, type password screen saver.
- 3 Press Enter.
- 4 Click the **Protect your files with a screen saver password link** located under the suggested topics.

Follow the steps listed in the Windows help to set up your password-protected screen saver.

To ensure the password protection is activated after pressing Fn + F1 (to activate instant security), wait ten seconds before walking away from the computer.

Power usage mode



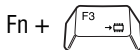
This hot key displays the power usage pop-up window and cycles through the battery save modes.



Sample power usage modes

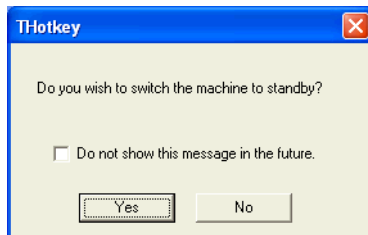
The properties of each mode are set in the Toshiba Power Management utility. For more information, see “TOSHIBA Power Saver” on page 157.

Standby mode



This hot key places the computer into Standby mode.

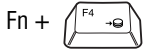
- ❖ A message box displays by default to confirm that the computer is entering Standby mode. You can choose not to display this message box.



Sample Standby confirmation box

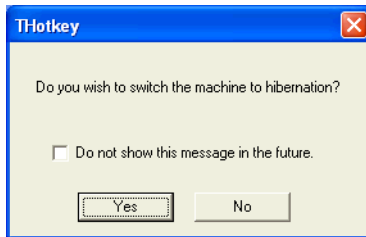
- ❖ For more information about Standby mode, please see “Using Standby” on page 101.

Hibernation mode



This hot key places the computer into Hibernation mode.

- ❖ If Hibernation mode is enabled (the default) a message box displays by default to confirm the computer is entering Hibernation mode. You can choose not to display this message box.



Sample Hibernation confirmation box

- ❖ If Hibernation mode is disabled, this hot key will not respond. For more information on Hibernation mode, see [“Using Hibernation” on page 99](#).

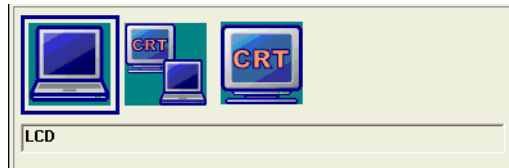
Display modes



This hot key cycles through the power-on display options.

The display modes are:

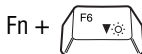
- ❖ Built-in display only
- ❖ Built-in display and external monitor simultaneously
- ❖ External monitor only



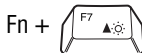
Sample display options window

In order to use a simultaneous mode, you must set the resolution of the internal display panel to match the resolution of the external display device.

Display brightness



This hot key decreases the screen brightness.



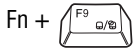
This hot key increases the screen brightness.

Disabling or enabling wireless devices



This hot key informs you when the Wireless antenna on-off switch is in the off position. (No message appears when the Wi-Fi antenna on-off switch is in the on position.)

Disabling or enabling the TouchPad



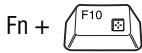
This hot key enables/disables the TouchPad.

For more information on using the TouchPad, see [“Disabling or enabling the TouchPad”](#) on page 64.

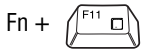


Sample disable and enable TouchPad windows

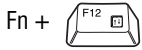
Keyboard hot keys



This hot key turns the cursor control overlay on and off.



This hot key turns the numeric overlay on and off.



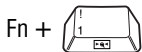
This hot key turns the scroll lock feature on and off.



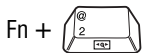
This hot key switches screen or video modes.

[Spacebar]

Zooming applications in/out



This hot key turns the Zooming utility to zoom-out. For more information, see [“TOSHIBA Zooming Utility”](#) on page 162.



This hot key turns the Zooming utility to zoom-in. For more information, see [“TOSHIBA Zooming Utility”](#) on page 162.

Appendix B

Power Cord/Cable Connectors

The computer features a universal power supply you can use worldwide. This appendix shows the shapes of the typical AC power cord/cable connectors for various parts of the world.

USA and Canada



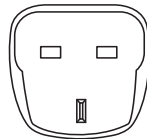
UL approved
CSA approved

Australia



AS approved

United Kingdom



BS approved

Europe



VDA approved
NEMKO approved

Appendix C

Using ConfigFree™ with your Toshiba Computer

ConfigFree™ is a set of utilities that makes it easy to control communication devices and network connections. ConfigFree also lets you identify communication problems and create profiles for easy switching between locations and communication networks.

NOTE For more information on using ConfigFree, see the ConfigFree online Help.

The ConfigFree utilities include the following:

- ❖ **Connectivity Doctor**—The Connectivity Doctor utility is used to analyze network connections and fix networking problems with your notebook computer. For more information, see [“Connectivity Doctor” on page 224](#).
- ❖ **Search for Wireless Devices**—The Search for Wireless Devices utility searches for wireless LAN and *Bluetooth*® devices used in the neighborhood, and displays information about them on a virtual map. For more information, see [“Search for Wireless Devices” on page 227](#).

- ❖ Profile Settings—The Profiles utility lets you switch between network configurations. For more information, see “Profile Settings” on page 232.
- ❖ ConfigFree SUMMIT—The ConfigFree SUMMIT utility is used to connect with other ConfigFree users for file sharing. For more information, see “ConfigFree SUMMIT” on page 236.

ConfigFree also includes a screen saver that you can customize by adding identifying text to devices. Click **Options** on the Connectivity Doctor screen to access the screen saver option.



Getting Started

This section contains information about the ConfigFree main screen, and how to start and setup ConfigFree.

For more detailed information on setting up and using ConfigFree, see the Help File included in the application.

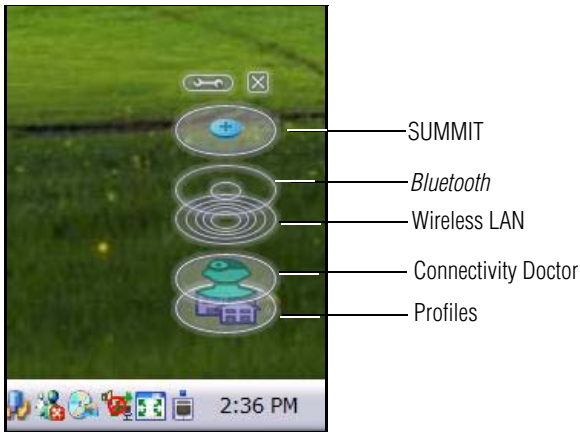
Starting ConfigFree

To start ConfigFree, be sure the computer has a wired or wireless connection. Then perform any of the following steps:

- ❖ (Microsoft® Windows® XP or 2000) Click the **Start** button, and select **All Programs, TOSHIBA, Networking, ConfigFree**.
- ❖ Double-click the **ConfigFree** icon  on the taskbar.
- ❖ Press the **TOSHIBA Assist** button (if applicable to your system) to open the TOSHIBA Assist, and then click the **ConfigFree** icon.
- ❖ Click the **ConfigFree** icon  on the taskbar, and then click the desired utility.

NOTE If your computer is not connected to a network, the ConfigFree icon on the taskbar is displayed with an “X.”

When you start a search for wireless devices, ConfigFree Launcher displays on your computer desktop. You can then click the appropriate icon on the Launcher to start the desired ConfigFree utilities.

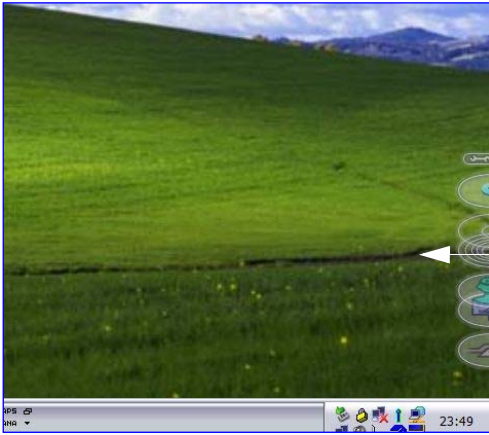


Sample ConfigFree Launcher

ConfigFree Launcher can be set to hide from view when it is not in use. When this setting is active (set the ConfigFree Launcher to Auto-hide mode), you can re-display ConfigFree Launcher by moving the mouse cursor to the right of the screen.



Sample ConfigFree Launcher Auto-hide mode setting



Sample ConfigFree Launcher coming back into view

ConfigFree Utilities

Connectivity Doctor

The Connectivity Doctor lets you analyze your network connections and fix network-connection problems. Using Connectivity Doctor, you can view detailed network information by simply moving the mouse pointer.

The Connectivity Doctor works with the following network devices:

- ❖ Wired and wireless network devices
- ❖ Routers, hubs, and bridges
- ❖ Access points

The Connectivity Doctor displays the following information:

- ❖ WEP (Used, not Used)
- ❖ Wired connection line (link speed)
- ❖ Wireless connection line (signal strength and link speed)

- ❖ Location of wireless communication switch (identified with a yellow arrow)
- ❖ Status of wireless communication switch (on or off)



- 1 **Wired Network Devices**
- 2 **Wireless Network Devices**
- 3 **Router/Hub/Bridge**
- 4 **Access Point**
- 5 **Display if WEP key is set**
This is not displayed if WEP is not set.
- 6 **Wired Connection Line**
Displays the link speed.
- 7 **Wireless Connection Line**
Displays the signal strength and link speed.
- 8 **Location of wireless communication switch**
Displayed with a yellow arrow.
- 9 **Status of wireless communication switch**
Displays whether the wireless communication switch is on or off.

Sample Connectivity Doctor screen

Moving the mouse pointer over a wired or wireless network device icon displays information about the device, such as its IP address, subnet mask, and MAC address. A wireless network device also shows information such as the network SSID and the device's Wired Equivalent Privacy (WEP) key settings.



Sample viewing device information

If a problem or potential problem is detected, in most cases, a screen automatically displays showing you the possible cause and solution for the problem.

A triangle containing an exclamation point also appears on the Connectivity Doctor screen and an orange frame describes the relevant location. You can also view the possible cause and solution for the problem by clicking the exclamation point. If multiple triangles display, you can toggle between each of their cause and solution information screens by clicking its exclamation point.

For example, if the connection to a wireless network cannot be established because the wireless communication switch is turned off, the problem description screen will normally display automatically when you start the Connectivity Doctor, and an exclamation point will appear next to the wireless communication switch.

The following checkboxes and buttons are provided on the Connectivity Doctor screen:

Stay on the task tray	When checked, the ConfigFree icon resides in the system tray.
Options	Displays ConfigFree setting screen.
Log	Lets you create a diagnostic log, view a history of log files, or delete the history. Log files are saved as CFhtmlxxxx.htm, where xxxx is the creation date and time. They reside in the folder: C:\Documents and Settings\username\Local Settings\Temp
About	Displays the version of Connectivity Doctor.
Help	Displays online help.
Close	Closes the Connectivity Doctor screen.

Search for Wireless Devices

The Search for Wireless Devices utility searches for wireless LAN and *Bluetooth* devices currently used in the neighborhood, and displays information about them on a virtual map.

To search for wireless devices:

- 1 Click the  icon in the system tray.
- 2 Click **Search for Wireless Devices**.

A virtual map appears with a graphical representation of the wireless devices that have been detected.

NOTE

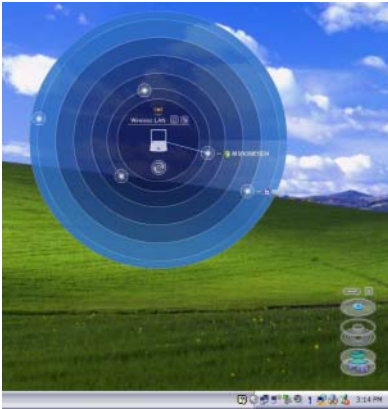
Search for Wireless Devices can also be started from the ConfigFree Launcher.

For Wi-Fi networks, the intensity of a signal is displayed in five levels or “bands.” The signal from the connected access point is displayed in the bands surrounding the PC icon at the center of the map. The closer to the center, the stronger the connection. Placing the pointer over the displayed “point of light” shows detailed information about the wireless device.

NOTE

The wireless device shown near the center of the map is not necessarily near your notebook computer. If a wireless device located a distance away also has a strong signal, it appears near the center of the map as well.

The Search for Wireless Devices feature identifies if a device is IEEE 802.11a, b, or g. It also includes an option to display hidden access point availability.



Sample viewing Wi-Fi devices

Creating a new wireless connection

NOTE

This feature is only supported on systems running Windows XP SP2.

To add a new wireless connection to an Access Point:

- 1 Open the Search for Wireless Devices option from ConfigFree Launcher.
- 2 Drag and drop the device you want to connect to the PC icon at the center of the map. The Wireless Settings screen appears.



Sample dragging a device to the Access Point



Sample Wireless settings screen

- 3 Enter the SSID/WEP information and connect to the device.

NOTE

After the Access Point is set up and added to the connection list, the system displays the Connection screen rather than the Wireless settings screen.

Creating a detected device wireless connection

The following screen shows an example of *Bluetooth* devices that are detected using the **Search for Wireless Devices** option. Moving the mouse cursor over a device icon displays information about the device.



Sample viewing Bluetooth devices

You can connect to devices shown on the *Bluetooth* map:

- 1 Drag and drop the device you want to connect to the PC icon at the center of the map.
- 2 Configured devices are automatically connected. Devices not yet configured launch the Add New Connection Wizard, where you can configure and connect to the device.

Transferring files using Bluetooth®

There are several ways to use *Bluetooth* to send files to other devices.

To select the device using the *Bluetooth* radar screen:

- ❖ Open the *Bluetooth* radar screen, and drag and drop the file directly onto the icon for that *Bluetooth* device.



Sample dragging the file to the Bluetooth device icon

To be prompted for the device:

- 1 Drag and drop the file to the *Bluetooth* radar icon on the ConfigFree Launcher.



Sample dragging the file to the Bluetooth radar icon

Or, you can right click on the file and select **Send to Bluetooth Devices**.



Sample selecting Send to Bluetooth Devices option

- 2 Choose a file recipient.
- 3 Click **Send**.

NOTE

During a file transfer, connecting and disconnecting to the selected device will occur automatically.

Disconnecting from a Bluetooth® device

To disconnect from a *Bluetooth* device:

- 1 Place the cursor on top of the connected line. The icon changes to a pair of scissors.
- 2 Click to disconnect from the device.

Profile Settings

The Profile Settings utility lets you save network settings in “profiles.” ConfigFree profiles are useful for easily switching network settings and devices. You can switch network settings simply by selecting the profile with the desired settings.


If you visit a client company occasionally, for example, you can set up a profile to match that environment and connect to the network. Similarly, users who access networks in the


office and at home can set up profiles to handle these networking environments.

A profile contains the currently configured network settings on the computer, as well as information about any network devices. The following settings can be saved (or “captured”) in a profile:

- ❖ **Internet settings** — includes LAN settings (proxy server settings) and the address of a home page that opens automatically when Internet Explorer starts.
- ❖ **Devices** — lets you enable or disable settings of wired and wireless network devices, infrared devices, and set the power status of *Bluetooth* antennas.
- ❖ **TCP/IP settings** — includes DHCP, IP address, subnet mask, default gateway, DNS server, and WINS server settings.
- ❖ Personal firewall settings for Internet connections.
- ❖ Dial-up connection settings for the default connection.
- ❖ File and printer sharing settings.
- ❖ Printer settings for the default printer.
- ❖ *Bluetooth* Security Level (for example, high or medium).

To create a profile:

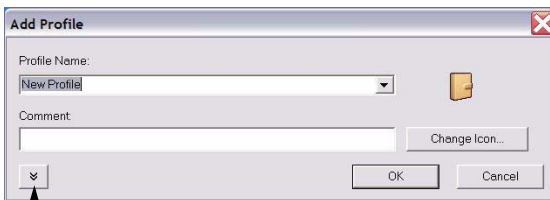
- 1 Click the  icon in the system tray.
- 2 Move the pointer to **Profile**.
- 3 Click **Add**. The Add Profile screen appears.
- 4 Select **Capture** and click **OK**. The Add Profile screen appears.
- 5 Enter the name of the profile you want to create.
- 6 Enter any optional comments, if desired.
- 7 Click **Change Icon** and select an icon for this profile.

- 8 Click the  icon at the bottom of the screen to display more capture options.
- 9 Under **Captured Items**, select the items you want to capture for this profile.
- 10 If connecting with a wireless network, select the desired **Auto Switch Settings**. (These options are unavailable if wireless devices have been disabled.)
- 11 Under **Execute this program after switching**, click the **Browse** button and select the program, file, or Web site URL that is to start after switching to this profile.

For example, to have Internet Explorer start in Windows XP after switching profiles, type:

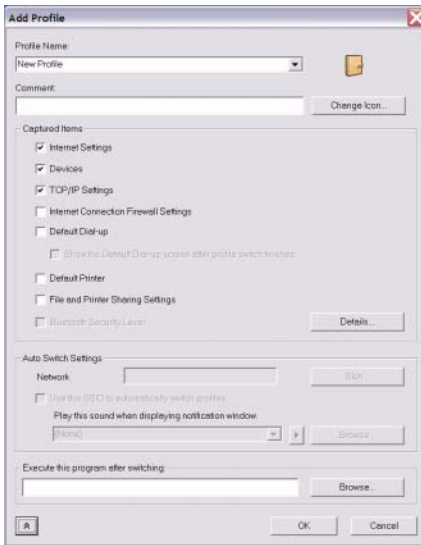
C:\Program Files\Internet Explorer\IEXPLORE.EXE

- 12 Click **OK**.



Press to show more capture options

Sample Add Profile screen



Sample expanded Add Profile screen

NOTE

The online help provides real-world examples of setting up profiles for different networking environments.

After you set up one or more profiles, you can check their settings and fine-tune them as necessary. Profiles can also be imported and exported. This feature is useful when transferring profile settings to other computers. For more information about modifying, importing, and exporting profiles, refer to the online help.

ConfigFree SUMMIT

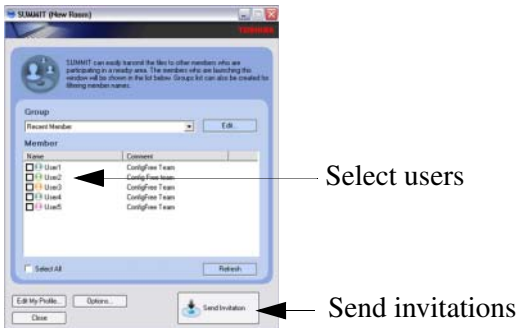
The ConfigFree SUMMIT utility is a convenient way to share files with other users and to transfer files between your computers at home and at work. This utility is faster and more dependable than sending the files via email.

Use this utility, which handles files regardless of size, to distribute presentations, reports, or music files to meeting attendees or to users at different locations.

The SUMMIT utility uses the following types of connections:

- ❖ Wireless LAN via Access Point
- ❖ Wireless LAN via Ad-Hoc
- ❖ LAN (same subnet)
- ❖ *Bluetooth* PAN/LAP
- ❖ Cross cable (Ethernet or Gbit Ethernet)

To host a ConfigFree SUMMIT, click the SUMMIT icon on the ConfigFree Launcher, select the users that you want to attend the SUMMIT meeting, and send them an invitation.



Sample of inviting users to SUMMIT meeting

When a user joins the SUMMIT, their icon appears on the SUMMIT table.



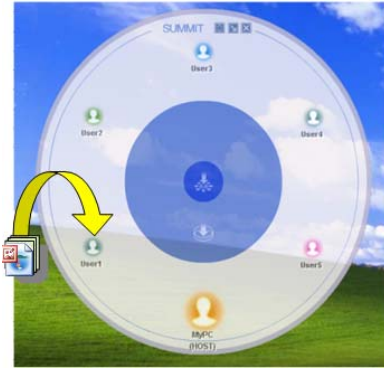
Sample of users attending SUMMIT meeting (user icons appear on SUMMIT table)

Files can be shared with one user or all users attending the meeting.

- ❖ To share a file with one user, drag and drop the file on the user's icon.

NOTE

Only the SUMMIT Host (the initiator) can share files with multiple users by this method. SUMMIT users can share a file with only one other user.

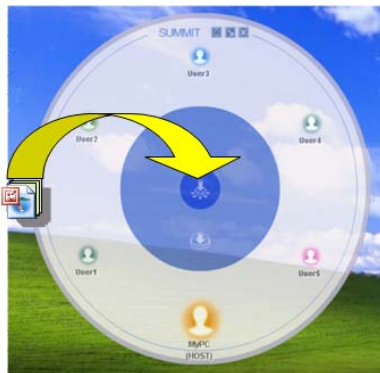


Sample of sharing a file with one user

- ❖ To share a file with all users, drag the file to the center of the SUMMIT table where users can access it as desired.

NOTE

If you are the Host of the summit, and drag a file to the center of the SUMMIT table, it will automatically be sent to all SUMMIT users who can then accept or decline the file as desired.




Sample of sharing a file with all users

NOTE

Participating users must be connected by LAN, wireless LAN, or *Bluetooth* (PAN). Firewall software may prevent ConfigFree SUMMIT from working.

Using ConfigFree SUMMIT

To host a ConfigFree SUMMIT:

- 1 Click the  icon in the system tray.
- 2 Click **SUMMIT**. Other users appear on the SUMMIT main window.

NOTE

SUMMIT can also be started from the ConfigFree Launcher.

- 3 Select the appropriate users and invite them to the SUMMIT meeting. As users join the SUMMIT, their icons appear on the SUMMIT table.
- 4 Use drag and drop to share documents with SUMMIT users:
 - ❖ To share a file with one user, drag the file to the user's icon.
 - ❖ To share a file with all users, drag the file to the center of the summit table.

There are other ways to send files to users.

To send files to all SUMMIT users:

- 1 Right click on the file and select **Send to SUMMIT Devices**.
- 2 Click **Send**.

To send files to a user without creating a SUMMIT meeting:

- 1 Drag and drop the file to the Wireless radar icon on the ConfigFree Launcher.
- 2 Right click on the file and choose a file recipient.
- 3 Click **Send**.

An Access Point may not always be available. To find out how to use Quick Connect to launch ConfigFree Summit, see [“Direct Link Toshiba Device” on page 242](#).

Quick Connect


The Quick Connect feature includes two options:

- ❖ **Toshiba Wireless Projector.** Switches the Wireless LAN connection to connect to a Toshiba Wireless Projector
- ❖ **Direct Link Toshiba Device.** Launches ConfigFree SUMMIT

Toshiba Wireless Projector


The Quick Connect feature switches the Wireless LAN connection to connect to a Toshiba Wireless Projector. Once the projector utility is installed, launching the Quick Connect utility automatically opens the Wireless Data Projector Application. There you can configure how you would like to use the projector.

To connect to a Toshiba Wireless Projector:

- 1 Click the  icon in the system tray.
- 2 Move the mouse pointer to **Toshiba Wireless Projector (DPJ)**, then click **Connect**.

Launching Quick Connect prevents you from using the network to connect to a Toshiba Wireless Projector when the wireless LAN Configuration is set to Ad hoc. If you are connected to an access point, the connection is broken and re-established later.

To review the current Toshiba Wireless Projector settings and change them if necessary:

- 1 Click the  icon in the system tray.
- 2 Move the mouse pointer to **Toshiba Wireless Projector (DPJ)**, then click **Settings**. The Quick Connect properties dialog box appears.
- 3 Complete the settings. Refer to the online help if necessary.
- 4 Click **OK**.

NOTE

The default connection setting is for Ad hoc mode, therefore, if the setting on the Toshiba Wireless Projector is in Infrastructure mode, it will not connect. However, you can change the settings to Infrastructure mode to match the settings on the projector.



Sample Projector icon when connected with Quick Connect

If the wireless mode for the wireless setting is set for 5 GHz (802.11a), Quick Connect changes this mode to 2.4 GHz (802.11b) and then connects to the projector.

The wireless LAN configuration returns to the settings that were last used before the Quick Connect function was started:

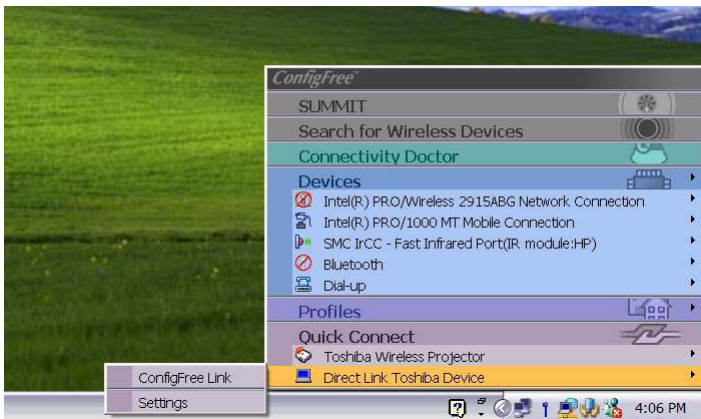
- ❖ If the Toshiba Wireless Projector utility is closed.
- ❖ If you select Toshiba Wireless Projector (DPJ) from the ConfigFree tray menu (this disconnects the wireless LAN connection).
- ❖ If you select a profile from the ConfigFree tray menu or when you disable a wireless device.
- ❖ If you close ConfigFree.

Direct Link Toshiba Device

When Access Point is not available, use the Direct Link Toshiba Device feature to connect your computer in ad-hoc (peer-to-peer) mode and use the Summit feature.

To use this feature:

- 1 Display the ConfigFree menu.
- 2 Select the ConfigFree Link option from the Direct Link Toshiba Device submenu. This action switches the computer's wireless network setting to ad-hoc mode, and launches the SUMMIT feature.




Sample using the Direct Link Toshiba Device feature

Using the Automatic Switch

The Automatic Switch feature allows the computer to automatically switch profiles the next time it is powered on. This feature is particularly useful if you want your computer to automatically switch from the network configuration you use in your office to the one you use at home.

The Auto Switch feature contains options for automatically switching between wired and wireless devices. With these options, the computer automatically switches to a wireless LAN network when the cable of the wired LAN network is removed from the computer. When the cable is reconnected, the connection to the wired LAN is re-established.

To use the Automatic Switch feature:

- 1 Right-click the  icon in the system tray.
- 2 Click **Auto Switch**. The Auto Switch dialog box appears.
- 3 Check **Enable Wireless when cable disconnect occurs**.
- 4 Click **OK**.


NOTE

If your computer is connected to multiple wireless LAN devices, the Auto Switch (SSID) feature is disabled. To enable this feature, only one wireless LAN device can be used.

Semi-Automatic Switch Feature

The Semi-Automatic feature alerts you when the computer connects to a Service Set Identifier (SSID) stored in a profile. When the computer connects to the designated SSID, a notification window appears. You can then click this window to connect using the settings specified in the profile.

To use the Semi-Automatic Switch feature:

- 1 Right-click the  icon in the system tray.
- 2 Click **Auto Switch**. The Auto Switch dialog box appears.
- 3 Select the **Auto Switch (SSID)** tab.
- 4 Select the profile to be automatically selected when the SSID is detected, then click **Add**. The profile is moved to the **List of target SSIDs and profiles**.
- 5 Repeat the previous step for each additional profile you want to select.
- 6 Select **Automatically switch profiles when connected to this SSID**.
- 7 Check **Automatically switch profile when connected to this SSID**.
- 8 Click **OK**.

The computer is now configured to use the Semi-Automatic Switch feature. When the computer connects to an SSID in a profile, a display notification window appears. You can then click **Switch** on the window to switch profiles. You can also set the option for having the switch be automatic without the need for a notification.

NOTE

Several profiles can be defined for a single SSID. In this case, several notification windows are displayed. By clicking these windows, you can switch to the profile for that location.

Glossary



TECHNICAL NOTE: Some features defined in this glossary may not be available on your computer.

Acronyms

These acronyms may appear in this user's guide.

AC	alternating current
BIOS	basic input/output system
bps	bits per second
CD	compact disc
CD-ROM	compact disc read-only memory
CD-RW	compact disc rewrite memory
CMOS	complementary metal-oxide semiconductor
COM1	communications port 1 (serial port)
COM2	communications port 2 (serial port)
CPU	central processing unit

DC	direct current
DMA	direct memory access
DIMM	dual inline memory module
DOS	disk operating system
DPI	dots per inch
DSTN	dual supertwist nematic
DVD	digital versatile (or video) disc
DVD-ROM	digital versatile (or video) disc read-only memory
ECP	enhanced capabilities port
EPROM	erasable programmable read-only memory
FAT	file allocation table
FCC	Federal Communications Commission
GB	gigabyte
HDD	hard disk drive
HTML	Hypertext Markup Language
IEEE	Institute of Electrical and Electronics Engineers
I/O	input/output
IRQ	interrupt request
ISP	Internet service provider
KB	kilobyte
LAN	local area network
LCD	liquid crystal display
LPT1	line printer port 1 (parallel port)
LSI	large-scale integration
MB	megabyte
MIDI	Musical Instrument Digital Interface
PC	personal computer
PCI	Peripheral Component Interconnect
PCMCIA	Personal Computer Memory Card International Association

RAM	random access memory
RFI	radio frequency interference
ROM	read-only memory
RTC	real-time clock
SCSI	small computer system interface
DDRAM	double data random access memory
SRAM	static random access memory
SVGA	super video graphics adapter
TFT	thin film transistor
USB	universal serial bus
URL	uniform resource locator
WAN	wide area network
www	World Wide Web

Terms

These terms may appear in this user's guide.

A

active-matrix display — A liquid crystal display (LCD) made from an array of liquid crystal cells using active-matrix technology. Also known as a “TFT display,” in its simplest form there is one thin film transistor (TFT) for each cell. This type of display works well with notebook computers because of its shallow depth and high-quality color. Active-matrix displays are viewable from wider angles than most passive-matrix displays.

adapter — A device that provides a compatible connection between two units. For example, the computer's internal display adapter receives information from the software and translates it into images on the screen. An adapter can take a number of forms, from a microprocessor to a simple connector. An intelligent adapter (one that is capable of doing some processing) may also be called a controller.

alternating current (AC) — The type of power usually supplied to residential and commercial wall outlets. AC reverses its direction at regular intervals. Compare *direct current (DC)*.

application — A computer program that you use to perform tasks of a specific type. Applications include word processors, spreadsheets, and database management systems. See also *program*.

B

backup — A copy of a file, usually on a removable disk, kept in case the original file is lost or damaged.

basic input/output system (BIOS) — See *BIOS*.

baud rate — The speed at which a communication device, such as a printer or modem, transmits information. Baud rate is the number of signal changes per second (not necessarily the same as bits per second). See also *bits per second*.

BIOS (basic input/output system) — Basic instructions, stored in read-only memory (ROM), containing the information the computer needs in order to check hardware and load the operating system when you start up the computer.

bit: — Short for “binary digit.” A bit is the smallest unit of information used by a computer. A group of eight bits is a byte. See also *byte*.

bits per second (bps) — A way of measuring the speed at which information is passed between two devices. The basic measure used in modem communications, bps is similar, but not identical, to the baud rate. See also *baud rate*.

boot — To start the computer. The term “boot” originates from bootstrap program (as in “pulling itself up by its bootstraps”), a program that loads and initializes the operating system. See also *reboot*.

boot disk — See *system disk*.

boot priority (startup sequence) — The order in which the computer accesses its disk drives to locate the startup files. Under the default startup sequence, the computer looks for the startup files in the diskette drive before checking the hard disk.

bus — An electrical circuit that connects the central processing unit (CPU) with other parts of the computer, such as the video adapter, disk drives, and ports. It is the pathway through which data flows from one device to another. See also *bus speed*, *frontside bus*.

bus speed — The speed at which the central processing unit (CPU) communicates with the other parts of the computer.

byte — A sequence of eight bits. A byte is the smallest addressable unit of data. See also *bit*, *gigabyte*, *kilobyte*, *megabyte*.

C

cache — A section of very fast memory in which frequently used information is duplicated for quick access. Accessing data from cache is faster than accessing it from the computer's main memory. See also *CPU cache*, *L1 cache*, *L2 cache*.

CD — An individual compact disc. See also *CD-ROM*.

CD-ROM (compact disc read-only memory) — A form of high-capacity storage that uses laser optics instead of magnetic means for reading data. See also *CD*. Compare *DVD-ROM*.

central processing unit (CPU) — The chip that functions as the “brain” of the computer. It takes information from outside sources, such as memory or keyboard input, processes the information, and sends the results to another device that uses the information.

character — Any letter, number, or symbol you can use on the computer. Some characters are non-printing characters, such as a paragraph break in a word-processing program. A character occupies one byte of computer storage.

chip — A small piece of silicon containing computer logic and circuits for processing, memory, input/output, and/or control functions. Chips are mounted on printed circuit boards.

click — To press and release the TouchPad control button or mouse button without moving the cursor or mouse. In the Windows® operating system, this refers to the left mouse button or primary TouchPad control button, unless otherwise stated. See also *double-click*.

color palette — A set of specified colors that establishes the colors that can be displayed on the screen at a particular time.

compatibility — The extent to which computers, programs, or devices can work together harmoniously, using the same commands, formats, or language as another.

configuration — (1) The collection of components that make up a single computer system. (2) How parts of the system are set up (that is, configured).

controller — A device that controls the transfer of data from a computer to a peripheral device and vice versa. For example, disk drives, monitors, keyboards, and printers all require controllers.

CPU — See *central processing unit (CPU)*.

CPU cache — A section of very fast memory residing between the CPU and the computer's main memory that temporarily stores data and instructions the CPU will need to execute commands and programs. See also *cache, L1 cache, L2 cache*.

cursor — A symbol that indicates the current position on the screen. The shape of the cursor varies, depending on the program you are using and what you are doing.

D

default — The setting selected by a program when the user does not specify an alternative setting.

device — A component attached to the computer. Devices may be external (outside the computer's case) or internal (inside the computer's case). Printers, disk drives, and modems are examples of devices.

device driver — A program (called a "driver") that permits a computer to communicate with a device.

dialog box — An on-screen window displayed by the operating system or a program giving a direction or requesting input from the user.

direct current (DC) — The type of power usually supplied by batteries. DC flows in one direction. Compare *alternating current (AC)*.

direct memory access (DMA) — A dedicated channel, bypassing the CPU, that enables direct data transfer between memory and a device.

directory — See *folder*.

disable — To turn a computer option off. See also *enable*.

disc — A round, flat piece of metal, designed to be read from and written to by optical (laser) technology, and used in the production of optical discs, such as CDs and DVDs. Compare *disk*.

-
- disk** — A round, flat piece of material that can be magnetically influenced to hold information in digital form, and used in the production of magnetic disks, such as diskettes and hard disks. Compare *disc*. See also *diskette*, *hard disk*.
- disk drive** — The device that reads and writes information and programs on a diskette or hard disk. It rotates the disk at high speed past one or more read/write heads.
- diskette** — A thin, flexible disk in a protective jacket that stores magnetically encoded data. Diskettes can be removed from the computer and come in two sizes: 5.25-inch and 3.5-inch. Your computer uses 3.5-inch diskettes. See also *double-density diskette*, *high-density diskette*.
- document** — Any file created with an application and, if saved to disk, given a name by which it can be retrieved. See also *file*.
- double-click** — To press the TouchPad control button or mouse button rapidly twice without moving the cursor or mouse. In the Windows® operating system, this refers to the primary TouchPad control button or left mouse button, unless otherwise stated.
- double-density diskette** — A 3.5-inch diskette that can hold up to 720 KB of information (half the capacity of a high-density diskette). See also *diskette*, *high-density diskette*.
- download** — (1) In communications, to receive a file from another computer through a modem or network. (2) To send font data from the computer to a printer. See also *upload*.
- drag** — To hold down the TouchPad control button or mouse button while moving the cursor to drag a selected object. In the Windows® operating system, this refers to the primary TouchPad control button or left mouse button, unless otherwise stated.
- driver** — See *device driver*.
- DVD** — An individual digital versatile (or video) disc. See also *DVD-ROM*.

DVD-ROM (digital versatile [or video] disc read-only memory) — A very high-capacity storage medium that uses laser optics for reading data. Each DVD-ROM can hold as much data as several CD-ROMs. Compare *CD-ROM*.

E **emulation** — A technique in which a device or program imitates another device or program.

enable — To turn on a computer option. See also *disable*.

executable file — A computer program that is ready to run. Application programs and batch files are examples of executable files. Names of executable files usually end with a .bat or .exe extension.

expansion device — A device that connects to a computer to expand its capabilities. Other names for an expansion device are port expander, port replicator, docking station, or network adapter.

extension — See *file extension*.

external device — See *device*.

F **file** — A collection of related information, saved on disk with a unique name. A file may be a program, information used by a program, or a document. See also *document*.

file allocation table (FAT) — The section of a disk that keeps track of the location of files stored on the disk.

file name — A set of characters that uniquely identifies a file within a particular folder. It consists of two parts: the actual name and the file name extension. See also *file extension*.

file extension — The three characters following the period (pronounced “dot”) at the end of a file name. The extension indicates the type of file. Examples are .exe for program files and .hlp for help files. See also *file name*.

folder — Also called directory. A container for organizing files saved to a disk. A folder is symbolized on screen by a graphical image (icon) of a file folder. A folder can contain files and other folders.

format — (verb) To prepare a blank disk for use with the computer's operating system. Formatting creates a structure on the disk so the operating system can write information to the disk or read information from it.

frontside bus — The primary pathway (bus) between the CPU and the computer's main memory. Also called "system bus." See also *bus*.

function keys — The keys labeled F1 through F12, typically located on the keyboard. Their function is determined by the operating system and/or individual programs.

G

gigabyte (GB) — A unit of data equal to 1,073,741,824 bytes (1024 x 1024 x 1024 bytes). 1 Gigabyte (GB) means 1000 x 1000 x 1000 = 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 GB = 1024 x 1024 x 1024 = 1,073,741,824 bytes, and therefore may show less storage capacity. Available storage capacity will also be less if the product includes one or more preinstalled operating systems, such as Microsoft Operating System and/or pre-installed software applications, or media content. Actual formatted capacity may vary. See also *byte*.

ground — A conductor to which all components of an electric circuit are connected. It has a potential of zero (0) volts, is connected to the earth, and is the point of reference for voltages in the circuit.

H

hard disk — A storage device composed of a rigid platter or platters that can be magnetically coded with data. Hard disks hold much more information than diskettes and are used for long-term storage of programs and data. The primary (or only) hard disk in a computer is usually fixed, but some computers have secondary hard disks that are removable. By default, the hard disk is referred to as drive C.

hardware — The physical components of a computer system. Compare *software*.

Hibernation — A feature of many Toshiba notebook computers that saves to the hard disk the current state of your work, including all open files and programs, when you turn the computer off. When you turn on the computer again, your work is returned to the same state it was when the computer was turned off. See also *Standby*, *Suspend*.

high-density diskette — A 3.5-inch diskette that holds 1.44 MB of data. See also *diskette*.

hot key — (1) A feature in which certain keys in combination with the Fn key can set system options or control system parameters, such as the battery save mode. (2) A key or combination of keys that activates a memory resident program.

hot swapping — The ability to add or remove devices from a computer while the computer is running and have the operating system automatically recognize the change.

I icon — A small image displayed on the screen that represents a function, file, or program.

interlaced — A method of refreshing a computer screen, in which only every other line of pixels is refreshed. Interlaced monitors take two passes to create a complete screen image. Compare *non-interlaced*.

internal device — See *device*.

Internet — The decentralized, world-wide network of computers that provides electronic mail, the World Wide Web, and other services. See also *World Wide Web*.

K

keyboard shortcut — A key or combination of keys that you use to perform a task instead of using a pointing device such as the TouchPad.

kilobyte (KB) — A unit of data equal to 1024 bytes. See also *byte*.

L

L1 (level one) cache — Memory cache built into the processor to help improve processing speed. See also *cache*, *CPU cache*, *L2 cache*.

L2 (level two) cache — Memory cache installed on the motherboard to help improve processing speed. It is slower than L1 cache and faster than main memory. See also *cache*, *CPU cache*, *L1 cache*.

LAN (local area network) — A group of computers or other devices dispersed over a relatively limited area and connected by a communications link that enables any device to interact with any other on the network.

liquid crystal display (LCD) — A type of display that uses a liquid substance between two transparent electrode panels. When an electric current passes through the electrodes, the molecules in the liquid form a crystalline pattern that polarizes the light passing through it. A filter over the electrodes permits only non-polarized light to pass to the surface of the display, creating light and dark pixels.

load — To move information from a storage device (such as a hard disk) into memory for processing.

local area network — See *LAN*.

logical drive — A section of a disk that is recognized by the operating system as a separate disk drive. A system's logical drives may differ from its physical drives. For example, a single hard disk drive may be partitioned into two or more logical drives.

M

megabyte (MB) — A unit of data equal to 1,048,576 bytes (1024 x 1024 bytes). See also *bytes*.

memory — Typically refers to the computer's main memory, where programs are run and data is temporarily stored and processed. Memory can be volatile and hold data temporarily, such as RAM, or it can be nonvolatile and hold data permanently, such as ROM. A computer's main memory is RAM. See *RAM*, *ROM*.

microprocessor — See *central processing unit (CPU)*.

MIDI (Musical Instrument Digital Interface) — A standard for connecting musical instruments, synthesizers, and computers. The MIDI standard provides a way of translating music into a form computers can use, and vice versa.

modem — Short for "modulator/demodulator." A device that converts information from digital to analog and back to digital, enabling information to pass back and forth between digital computers and analog telephone lines.

motherboard — The main circuit board in the computer. It contains the processor, memory, and other primary components.

MS-DOS® prompt — See *system prompt*.

multi-function drive—A DVD drive that can read and write to CD and DVD media.

multimedia — A combination of two or more media, such as sound, animation, and video in a computer program or presentation.

Musical Instrument Digital Interface — See MIDI.

N

network — A collection of computers and associated devices that are connected by communications facilities. A network allows you to share data and peripheral devices, such as printers, with other users and to exchange electronic mail.

non-interlaced — A method of refreshing a computer screen, in which each pixel of every line is refreshed as the electron beam scans across and down the screen. Compare *interlaced*.

non-system disk — A disk for storing programs and data that cannot be used to start the computer. Compare *system disk*.

O

online — Available through the computer. Online may refer to information being read from your own computer's hard disk, such as online documentation or online help, or to information coming from another company on a company network or the Internet.

operating system — A set of programs that controls how the computer works. Examples of operating systems are Windows® XP and Windows® 2000.

P

palette — See *color palette*.

parallel — Processes that occur simultaneously. In communications, it means the transmission of more than one bit of information at a time. On your computer, the parallel port provides a parallel communications interface between the computer and an appropriate device. Most modern printers are parallel. Compare *serial*.

password — A unique string of characters entered by a user to verify his or her identity to the computer or the network.

PC Card — A credit-card-sized expansion card designed to increase the capabilities of notebook computers. PC Cards provide functions such as modem, fax/modem, hard disk drive, network adapter, sound card, or SCSI adapter.

-
- peripheral** — Any device, such as a printer or joystick, that is attached to the computer and controlled by the computer's CPU.
- pixel** — Short for "picture element." The smallest dot that can be produced on a screen or printer.
- Plug and Play** — Generally, refers to the computer's ability to automatically configure itself to work with peripheral devices. When capitalized, refers to a standard that, when followed by a device manufacturer, allows a PC to configure itself automatically to work with the device.
- pointing device** — Any device, such as the TouchPad or a mouse, that enables you to move the cursor on the screen.
- port** — A socket on the computer where you plug in a cable for connection to a network or a peripheral device.
- processor** — See *central processing unit (CPU)*.
- program** — A set of instructions that can be executed by a computer. The general classes of programs (also called software) are operating system, application, and utility. See also *operating system, application, utility*.
- properties** — The attributes of an object or device. For example, the properties of a file include the file's type, size, and creation date.
- R** **RAM (random access memory)** — Volatile memory that can be written to as well as read. By volatile, we mean that information in RAM is lost when you turn off your computer. This type of memory is used for your computer's main memory. See also *memory*. Compare *ROM*.
- random access memory** — See *RAM*.
- read-only memory** — See *ROM*.
- reboot** — See *boot, restart*.
- removable disk** — A disk that can be removed from a disk drive. A diskette is one example of a removable disk.

resolution — A measure of the sharpness of the images that can be produced by a printer or displayed on a screen. For a printer, resolution is expressed in dots per inch (dpi). For a screen, it is expressed as the number of pixels available horizontally and vertically.

restart — Synonymous with reboot. To reset the computer by reloading the operating system without turning the computer off. See also *boot*.

RJ-11 — A modular connector used on most U.S. telephone systems and direct-connect modems. The RJ-11 connector is a 6-wire connector.

ROM (read-only memory) — Non-volatile memory that can be read but not written to. By non-volatile, we mean that information in ROM remains whether or not the computer is receiving power. This type of memory is used to store your computer's BIOS, which is essential instructions the computer reads when you start it up. See also *BIOS, memory*. Compare *RAM*.

S

select — To highlight or otherwise specify text, data, or graphics with the intent to perform some operation on it.

serial — Processes that occur one at a time. In communications, it means the transmission of one bit at a time sequentially over a single channel. On your computer, the serial port provides a serial interface between the computer and an appropriate device. Compare *parallel*.

shortcut — See *keyboard shortcut*.

software — See *program*. Compare *hardware*.

Standby — A feature of some Windows® operating systems that allows you to turn off the computer without exiting your open applications and to continue from where you left off when you turn the computer on again.

Suspend — A feature of some Windows® operating systems that allows you to turn off the computer without exiting your open applications and to continue from where you left off when you turn the computer on again.

system disk — A diskette that contains the operating system files needed to start the computer. Any diskette can be formatted as a system disk. A system disk is also called a “bootable disk” or a “startup disk.” Compare *non-system disk*.

system prompt — The symbol (in MS-DOS®, generally a drive letter followed by a “greater than” sign) indicating where users are to enter commands.

T U

TFT display — See *active-matrix display*.

universal serial bus (USB) — A serial bus that supports a data transfer rate of up to 480 Mbps (480 million bits per second). USB can connect up to 127 peripheral devices through a single all-purpose USB port. USB allows hot swapping of peripherals. See also *bus*, *hot swapping*, *serial*.

upload — To send a file to another computer through a modem or network. See also *download*.

USB — See *universal serial bus (USB)*.

utility — A computer program designed to perform a narrowly focused operation or solve a specific problem. Utilities are often related to computer system management.

W

Web — See *World Wide Web*.

Wi-Fi — A trademarked term by the Wi-Fi Alliance which stands for Wireless Fidelity, and is another term for the communication protocol to permit an Ethernet connection using wireless communication components.

World Wide Web (www) — The worldwide network of Web sites linked together over the Internet. A user of the Web can jump from site to site regardless of the location of the computer hosting the site. See also *Internet*.

Index

Numerics

101-key keyboard 78

A

AC adapter 48

AC power cord/cable connectors
220

accessories

 memory 55

adding memory 55

adjusting recording quality 138

Alt keys 79

assign keys

 Fn-esse 150

audio

 .wav files 137

audio features 134

Auto-Run 136

B

backing up files 77

battery

 changing 116

 charge indicator light 109

 charge not lasting 181

 charging 51

 conserving power 113

 disposal 121

 low charge 112

 monitoring power 109

 not charging 180

 power usage hot key 115

 power usage mode 215

 real-time clock (RTC) 106

 removing 116

BIOS setup

 see Toshiba Hardware Setup

button

 power 54

 start 125

C

CD

 creating 136

 playing an audio 134

 playing using Auto-Run 136

channels

- DMA 176
- IRQ 176
- character keys 78
- charging the battery 51
- checking device properties 178
- click 64
- communications
 - network connection 128
 - system resources 176
- compact disc positioning 92
- compact discs
 - handling 92
 - inserting 91
 - removing 93
- computer
 - non-system disk or disk error message 172
 - not accessing disk drives 171
 - running on battery power 104
 - setting up 45, 56
 - turning off 65
 - warning resume failure message 171
- computing tips 76
- connecting to a power source 48
- connection
 - set up 128
- control buttons 64
- critical applications 3
- Ctrl keys 79
- D**
- desktop
 - creating new icon 124
 - major features 124
- desktop exploration 123
- desktop icons 124
- Device Manager 177
 - checking properties 178
 - disabling a device 178
- devices
 - keyboard 68
 - mouse 69
- disable/enable
 - TOSHIBA Touch and Launch 167
- Disk Defragmenter 186
- disk drive
 - corrupted/damaged data files 187
 - missing files/trouble accessing a disk 185
 - running slow 186
- diskette drive
 - cannot insert a diskette 187
 - cannot read a diskette 187
 - connecting 72
 - external, connecting 72
- display
 - does not look normal/flickers 184
 - external monitor not working 185
 - screen is blank 183
- display device
 - external 66
- display output settings 67
- display panel
 - closing 66
- display, external
 - adjusting 68
- disposal information 27
- disposing of used batteries 121
- DMA (Direct Memory Access) 176
- double-click 64
- DVD player
 - general problems 198
- DVD-ROM drive
 - problems 188

- troubleshooting 188
- DVD-ROM/multi-function drive problems 188

E

- environment
 - computer-friendly 41
- error messages
 - device driver conflict 175
 - general hardware problem 175
 - non-system disk or disk error 172, 187
 - problem with display settings/
 - current settings not working with hardware 184
 - program has performed an illegal operation 169
 - warning resume failure 171
- Error-checking 186
- Ethernet LAN port 129
- expansion memory slot 57
- exploring the desktop 123
- external
 - monitor
 - not working 185
 - mouse 69
- external diskette drive
 - connecting 72
- external display, adjusting 68
- external speakers 73

F

- FAT (File Allocation Table) 186
- FCC Notice “Declaration of Conformity Information” 3
- FCC requirements 4
- file extensions 86
- file, backing up 77
- files

- backing up 95
 - printing 87
 - restoring 96
 - saving 84
- FN keys 79
- Fn-esse
 - starting 148
 - using to assign keys 150
- Fn-esse program 148
 - assigning a key 148
 - using drag-and-drop 149
- function keys 79

H

- hardware conflicts 175
 - resolving 177
- headphones
 - connecting 73
 - using 138
- Help and Support
 - Windows XP 174
- Hibernation
 - enabling 157
- Hibernation mode 99
 - configuring 100
 - starting again from 101
- hot key
 - display brightness 217
 - display modes 217
 - Hibernation mode 216
 - instant password security 213
 - keyboard 219
 - keyboard overlays 219
 - password security 213
 - power usage mode 215
 - Standby mode 215
 - volume mute 212
- hot key power usage mode 115
- hot key utility 160
- hot keys 213

hot swapping
PC Cards 94

I

icon 124
desktop 124
Internet Explorer 125
moving to desktop 124
recycle bin 125
safety 38
Industry Canada requirement 4
installation
memory module 55
installing
memory modules 55
mouse 69
instant passwords, using 154
Internet
bookmarked site not found 174
connecting to 132
features 133
slow connection 174
surfing 133
uploading and downloading
files 134
URL address not found 174
Internet Explorer icon 125
Internet Service Providers 132
IRQ (Interrupt Request) 176
ISPs 132

J

jack
RJ-11 145

K

key
assign 150
changing 151
direct assign 150

popup 151
removing 151
key assignment
viewing existing 151
key assignments
changing or removing existing
151
keyboard
character keys 78
function keys 79
hot keys 219
not working 171
overlay keys 80
troubleshooting 182
Windows special keys 80
keyboard, external 68
keyboard, full-size 78
keyboard, PS/2-compatible
68

L

LCD power-saver 66

M

main battery
removing 116
memory
adding 55
expansion slots 56
problem solving 179
removing expansion slot cover
57
memory module
inserting 59
installation 55
removing 62
microphone 137
external, connecting 73
modem
connecting to a telephone line

- 144
- determining COM port 127
- problem solving 194
- resetting port to default settings 127
- upgrading 127
- monitor 66
 - connecting 67
 - not working 183
- mouse
 - installing 69
 - serial 69
- Music/CD button functionality 90
- N**
- network
 - accessing 128
 - Dial-Up Networking Wizard 128
- networking
 - wireless 128
- O**
- opening the display panel 52
- other documentation 39
- overlay keys 80
- P**
- password
 - deleting a supervisor 157
 - disabling a user 155
 - supervisor
 - set up 156
- passwords
 - instant, using 154
 - setting user 154
- PC Card
 - checklist 190
 - CIS (Card Information Structure) 190
 - computer stops working 191
 - configuring 141
 - errors 192
 - hot swapping 94
 - hot swapping fails 192
 - inserting 139, 141
 - modem default 127
 - not recognized 192
 - problem solving 189, 191
 - removing 140, 142
 - setting up 141
 - using 94
- Plug and Play 176
- port
 - COM 127
 - Ethernet LAN 129
 - RGB 66
- power
 - computer will not start 170
 - energy-saving features 104
 - problem solving 180
 - turning on 54
 - universal power supply 220
- power button 54
- power mode
 - creating new 159
 - customizing 159
- power source 48
- power usage mode
 - hot key 115
- power usage modes 114
- powering down
 - using Standby 101
- precautions 42
- primary button 64
- printer
 - local, connecting 69
 - problem solving 193
- printing a file 87

-
- problem solving
 - AC power 180
 - accessing disk drives 171
 - battery charge does not last 181
 - battery not charging 180
 - cannot insert diskette in drive 187
 - cannot read a diskette 187
 - changing display properties 184
 - checking device properties 178
 - computer hangs when PC Card inserted 191
 - computer will not power up 170
 - contacting Toshiba 208, 209
 - corrupted/damaged data files 187
 - Device Manager 177
 - disabling a device 178
 - disk drive is slow 186
 - display is blank 183
 - external display not working 185
 - external monitor 183
 - faulty memory 179
 - hardware conflict 175, 176
 - high-pitched noise 189
 - illegal operation 169
 - Internet bookmarked site not found 174
 - Internet connection is slow 174
 - keyboard
 - not responding 171
 - missing files/trouble accessing a disk 185
 - modem not receiving or transmitting 194
 - no sound 189
 - non-system disk or disk error
 - 172, 187
 - PC Card 189
 - checklist 190
 - error occurs 192
 - hot swapping fails 192
 - not recognized 192
 - slot appears dead 191
 - power and batteries 180
 - printer 193
 - program not responding 168
 - program not working properly 187
 - screen does not look right/flickers 184
 - Startup options 173
 - system resources 176
 - URL address not found 174
 - warning resume failure 171
 - Windows will not start 171
 - Windows XP not working 172
 - program, starting 81
 - programs
 - not running correctly 187
 - projector 66
 - connecting 67
 - protection of stored data 2
- R**
- real-time clock (RTC) battery 106
 - recording
 - .wav files 137
 - sounds 137
 - recording quality 138
 - recording sounds 137
 - recycle bin icon 125
 - registering computer 47
 - removing
 - main battery 116
 - RJ-11 jack 145
 - Run dialog box 83

running the computer on battery power 104

S

safety

- computer 122
- disposing of batteries 121
- icons 38
- precautions 42

saving files 84

screen

- blank 183
- does not look normal/flickers 184

secondary button 64

setting up

- adding memory 55
- computer 45, 56
- TOSHIBA Touch and Launch 166

setting up a connection 128

settings

- TOSHIBA Touch and Launch 166

shutting down more quickly 97

sound

- problem solving 189

sounds

- recording 137

speakers

- external, connecting 73
- using external 138

Standby 101

Standby mode

- going into more quickly 102
- hot key 215
- starting again from 103

start button 125

starting a program 81

- Run dialog box 83

Windows Explorer 82

Windows Start menu 82

starting up the computer

- from Shut down 99
- from Standby 103

Startup menu

- problem solving 173

stored data protection 2

supervisor password, deleting 157

supervisor password, set up 156

system tray 126

T

taskbar 126

telephone line

- connecting to modem 144

television

- adjusting display 68

Toshiba

- Internet Web sites 210
- registering computer 47
- worldwide offices 210

Toshiba Hardware Setup 161

Toshiba online resources 103

TOSHIBA Touch and Launch 163

- disable/enable 167

Toshiba utilities 147

traveling tips 122

troubleshooting

- DVD player
 - general problems 198
- DVD-ROM drive 188
- external keyboard 182
- keyboard 182
- keypad overlay 182

turning off the computer 65

turning on the computer 55

turning on the power 54

U

- user password, disabling 155
- user passwords
 - setting 154
- using a file extension 86
- utilities
 - Toshiba Power Saver Utility 157

V

- video projector
 - adjusting display 68

W

- warranty
 - limited warranty 40
- Web sites 209
 - Toshiba 210
- Wi-Fi
 - wireless networking 128
- Windows Explorer 82
- Windows Media Player 134
- Windows Start menu 82
- Windows XP
 - Help and Support 174
 - problem solving 172
- Windows XP Professional desktop 123
- wireless interoperability 7
- wireless networking 128
- Wizards
 - Dial-Up Networking Wizard 128

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