

Portégé R400-S4931 Detailed Product Specification¹

Model Name	Description	Part Number	UPC
R400-S4931	Genuine Windows Vista™ Ultimate, Intel® Core™ Duo Processor U2500, 2048MB DDR2, 80GB 4200rpm (ATA-6), USB DVD-SuperMulti, 12.1" WXGA LED Backlight High Brightness Display with Wide View Angle, Intel Graphics Media Accelerator 950, Intel PRO/Wireless 3945ABG (802.11a/b/g), Bluetooth v2.0+EDR, Integrated EVDO (Verizon Wireless), 2 nd Battery, 3-year standard limited warranty	PPR40U-00J015	032017790315

Section 1.01 Operating System²[CPU_64](#)

- Genuine Windows Vista™ Ultimate

Section 1.02 Processor and Chipset³

Intel® Centrino® Duo Mobile Technology featuring:

- Intel® Core™ Duo Processor U2500
 - 1.20GHz, 2MB L2, 533MHz FSB
- Chipset
 - Mobile Intel® 945GM Express Chipset
- Integrated Wi-Fi® compliant wireless LAN
 - Intel® PRO/Wireless 3945ABG (802.11a/b/g)

Section 1.03 Memory⁴

- Configured with 2048MB PC4200 DDR2 SDRAM (both memory slots are occupied)
- 2048MB (Min)/4096MB (Max), with 256MB, 512MB, 1024MB or 2048MB PC4200 DDR2 memory modules. Dual-channel support requires two memory modules of same capacity and clockspeed.

Section 1.04 Hard Disk Drive⁵

- 80GB (4200 RPM) Enhanced IDE (ATA-6) hard disk drive; 8mm height

Section 1.05 External USB Optical Disk Drive⁶

- DVD-SuperMulti drive maximum speed and compatibility
 - Read: CD-ROM/-R/-RW (Max. 12x), DVD-ROM (Max. 4x), DVD-RAM (2x)
 - Write: CD-R (4x), CD-RW (4x), DVD-R (4x), DVD-RW (2x), DVD+R/+R DL (2.4X), DVD+RW (2.4x), DVD-RAM (2x)

Section 1.06 Display⁷

- 12.1" diagonal widescreen LED backlight High Brightness display at 1280x800 native resolution (WXGA) with Wide Viewing Angle.

Section 1.07 Graphics⁸

- Intel® Graphics Media Accelerator 950 with 8MB-256M dynamically allocated shared graphics memory

Section 1.08 Sound

- Built-in monaural speaker
- Sound Volume Control
- Built-in microphone

Section 1.09 Input Devices

- Keyboard
 - 85 key US keyboard
 - Hot Key Functions (Fn)
 - Windows Key Function
 - Application Key Function

- TouchPad™ pointing device
- TouchPad™ Enable/Disable
- Control Buttons:
 - Email button
 - Security button
 - Rotation button
 - Cross-Functional button (TOSHIBA Mobility Center)

Section 1.10 Communications

- Intel® PRO/1000 Network Connection - 10/100/1000 Base-TX Ethernet
- Integrated Wireless-LAN:⁹
 - Intel® PRO/Wireless Network Connection 3945ABG (802.11a/b/g)
- Bluetooth® version 2.0 plus Enhanced Data Rate (EDR) with Toshiba Bluetooth driver software
- Integrated EVDO Verizon Wireless¹⁰

Section 1.11 Expandability

- 2 main memory slots. Both slots may be occupied.
- One PCMCIA – Type II/Type I Card Slot

Section 1.12 Ports

- Video
 - RGB (monitor) output port
- Audio
 - Microphone input port
 - Headphone output port
- Data
 - USB v2.0 – 2 ports
 - RJ-45 LAN port

Section 1.13 Physical Description for this Product Series

- Dimensions (WxDxH Front/H Rear): 12.0" (304.0mm) x 9.43" (239.5mm) x 1.18" (29.9mm)[F]/1.26" (31.9mm)[R] without feet
- Weight: Starting at 3.79 lbs (1.72 kg) depending upon configuration¹¹
- Chassis Description
 - Case material: Magnesium + Polycarbonate ABS
 - LCD Cover Color: Cloud
- Physical Security
 - Slot for cable lock;
 - Items protected by a screw: Memory, Main HDD
 - Fingerprint reader
- Software Security
 - Passwords: User power-on password, supervisor password
 - Hotkey locks: Screen Blank

Section 1.14 Power Supply

- 60W (15V x 4A) Auto sensing external AC Adapter, 100-240V / 50-60Hz frequency (Universal) input.
- Dimensions (WxDxH): 4.51" (114.5mm) x 1.14" (29.0mm) x 1.95" (49.5mm)
- Weight: starting at 0.58 lbs (262 g)

Section 1.15 Battery¹²

- 6-cell (4000mAh) rechargeable, removable Lithium Ion (Li-Ion) battery pack
- Dimensions (WxDxH): 8.74" (221.9mm) x 3.29" (83.67mm) x 0.47" (11.9mm)
- Weight: starting at 0.65 lbs (295 g)
- Secondary 6-cell (4000mAh) rechargeable, removable Lithium Ion (Li-Ion) battery pack
- Dimensions (WxDxH): 12.0" (304.0mm) x 4.65" (118.0mm) x 1.01" (25.6mm)
- Weight: starting at 0.96 lbs (435 g)
- Battery Life (measured by MobileMark™)¹³
 - TBD
- Recharge Time
 - Main Battery Off/On – approximately 3.5 hrs/approximately 3.5 to 4.0 hrs

Section 1.16 Toshiba EasyGuard™¹⁴

- Protect & Fix
 - Shock Absorbing Design¹⁵
 - HDD Shock Absorber
 - Hard Disk Drive Protection
 - 3D Accelerometer
 - HDD Shock Absorber
 - Magnesium Alloy Casework
 - TOSHIBA PC Diagnostic Tool
 - Key Component Access
- Secure
 - Multiple-Level Password Utilities
 - Fingerprint Reader (includes software for password and identity management)
 - UPEK Protector Suite™ QL,
 - Infineon TPM Software Professional Package 2.0
 - Trusted Platform Module (TPM v1.2)
 - Advanced Instant Security
 - Reinforced Security Cable Lock Slot
 - Execute Disable Bit
 - Optional Services and Accessories (additional purchase required)
 - HDLock™ for Toshiba Notebooks
 - CompuTrace®
- Connect
 - Diversity Antenna
 - TOSHIBA ConfigFree®
 - Voice-over-IP Ready Design
 - TOSHIBA Bluetooth® Stack
- Optimize
 - Email Button
 - TOSHIBA Zooming Utility
 - LCD Rotation Utility
 - One-touch Resolution Change
 - TOSHIBA Power Saver Utility
 - Wireless On/Off Switch
 - TOSHIBA Mouse Utility
 - FN Shortcut Keys

Section 1.17 BIOS

- ACPI v2.0, PNP, VESA, DPMS, DDC, SM BIOS v2.4, PCI BIOS v2.1 support

Section 1.18 Software¹⁶ CPU 64

- TOSHIBA Value Added Package
- Electronic User's Guide
- Bluetooth Stack for Windows by Toshiba
- Toshiba 3G RF Power Control Utility
- Toshiba Tablet PC Extension
- TOSHIBA ConfigFree®
- TOSHIBA Management Console
- TOSHIBA Tablet Access Code Logon Utility

- TOSHIBA Assist
- TOSHIBA Security Assist
- TOSHIBA Disc Creator
- TOSHIBA Fingerprint Utility
- TOSHIBA Extended Tiles for Windows Mobility Center
- TOSHIBA Recovery Disc Creator
- TOSHIBA Speech System
- Third-party Software
 - Microsoft Office OneNote® 2007
 - Sun® Java™ 2 Runtime Environment
 - Adobe® Acrobat® Reader
 - InterVideo® WinDVD® 8 SD
 - Microsoft® Windows Media Player version 11
 - Google Toolbar
 - Infineon Trusted Platform Module Utility
 - Ulead® DVD MovieFactory® for Toshiba
- Trial Software
 - Microsoft Office Ready with 60 day Office Professional 2007 Edition Trial
 - McAfee® Internet Security Suite (30-day trial)
- Special Offers
 - Microsoft Office Live

Section 1.19 Environmental Specifications

	Operating	Non-operating
Temperature ¹⁷	5° to 35° C (41° to 95° F)	-20° to 65° C (-4° to 149° F)
Thermal Gradient	15° C per hour (max)	20° C per hour (max)
Relative Humidity (non-condensing)	20% to 80%	10% to 90%
Altitude (relative to sea level)	-60 to 3,000 meters	-60 to 10,000 meters
Shock	7G	60G
Vibration	0.2G	1.0G

- Energy Star Compliant
- This product is RoHS¹⁸ compatible

TECRA / PORTEGE / LIBRETTO – 3 YEAR STANDARD LIMITED WARRANTY¹⁹

Service Upgrades and Extensions

Toshiba offers many different enhanced services such as SystemGuard®, On-Site Repair, and ServiceExpress to provide additional support to your notebook PC. For a full description and complete list of programs and program terms and conditions, please visit www.pcsupport.toshiba.com.

Recommended Services

Extended Service Plan

Provides an extended service plan for up to 4 total years from the original notebook purchase date.

Part Number	Description
WSN-PTQQ4V	4th Year Extended Service Plan

SystemGuard Accidental Damage Service w/ ServiceExpress²⁰

Provides advanced protection from damage caused from handling. Select your express repair service with either Depot Express or Carry-In Express and go to the front of the line. Extended Service Plan included with 4 Year plan. SystemGuard coverage must be purchased within the first 30 days of notebook purchase.

Part Number	Description
WSN-PQGP3V	1st/2nd/3rd Year
WSN-PTGP4V	1st/2nd/3rd/4th Year + Extended Service Plan

SystemGuard Accidental Damage Service + On-Site Repair²¹

TOSHIBA

Combines SystemGuard and On-Site Repair coverage. Extended Service Plan included with 4 Year plan. SystemGuard coverage must be purchased within the first 30 days of notebook purchase.

<u>Part Number</u>	<u>Description</u>
WSN-PQGN3V	1st/2nd/3rd Year
WSN-PTGN4V	1st/2nd/3rd/4th Year + Extended Service Plan

ServiceExpress

Select your express repair service with either Depot Express or Carry-In Express. Depot Express: Your notebook will be repaired and returned via overnight shipment (excluding weekends and holidays). Carry-In Express: Take your notebook into a Premier ASP and go to the front of the line for expedited repair service. Extended Service Plan included with 4 Year plan.

<u>Part Number</u>	<u>Description</u>
WSN-PQQP3V	1st/2nd/3rd Year
WSN-PTQP4V	1st/2nd/3rd/4th Year + Extended Service Plan

On-Site Repair Service

On-site service will be provided at the customer's home or business location (excluding weekends and holidays) to perform the necessary hardware repairs. Extended Service Plan included with 4 Year plan.

<u>Part Number</u>	<u>Description</u>
WSN-PQQN3V	1st/2nd/3rd Year
WSN-PTQN4V	1st/2nd/3rd/4th Year + Extended Service Plan

Article II. Accessories

<u>Part Number</u>	<u>Description</u>
PA3412U-2M51	Toshiba 512MB DDR2 533MHz PC2-4200 Memory Module
PA3411U-2M1G	Toshiba 1GB DDR2 533MHz PC2-4200 Memory Module

Power

<u>Part Number</u>	<u>Description</u>
PA3282U-2ACA	Toshiba 60W Global AC Adapter, RoHS
PA3522U-1BRS	Toshiba Primary Li Ion Battery Pack (6 Cell), RoHS
PA3523U-1BRS	Toshiba Secondary Li Ion Battery (6 Cell), RoHS

Article III. Subject to Change

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 <http://www.pcsupport.toshiba.com>

Article IV. Return Policy

Notwithstanding anything to the contrary in any third party License Agreement or product documentation supplied with your PC, Toshiba America Information Systems, Inc. ("TAIS") does not accept the return of component parts, or bundled software, that have been removed from the PC system. Pro-rata refunds on individual PC components or bundled software, including the operating system, will not be granted. If you wish to return a complete PC system, contact the TAIS dealer where you purchased the product, and comply with the dealer's standard return policies and procedures.

Toshiba America Information Systems, Incorporated ("TAIS")
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Irvine CA 92618
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TAIS PC Support website: <http://pcsupport.toshiba.com>

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Expansion

<u>Part Number</u>	<u>Description</u>
PA3541U-2PRP	Toshiba Dynadock USB Docking Station with VGA Video Support
PA3542U-2PRP	Toshiba Dynadock USB Docking Station with DVI Video Support
PA3529U-1PRP	Toshiba Wireless Port Replicator (available in March 2007)
PA3438U-2CD2	Toshiba UltraSlim USB 2.0 CD-RW/DVD-ROM Combo Drive (Silver)
PA3454U-1DV2	Toshiba UltraSlim USB 2.0 DVD Super Multi Drive (Silver)

Security & Protection

<u>Part Number</u>	<u>Description</u>
PA1409U-1NCS	Toshiba Neoprene Shuttle (fits up to 13" laptop)
PA410U	Targus DEFCON CL Notebook Cable Lock

Storage

<u>Part Number</u>	<u>Description</u>
PA3109U-3FDD	Toshiba USB Floppy Disk Drive, RoHS
PA1411U-1M1G	Toshiba 1GB USB Hi-Speed Flash Drive

Wireless/Bluetooth

<u>Part Number</u>	<u>Description</u>
PA1380U-1NMS	Toshiba Wireless Travel Mouse with Bluetooth Technology

Input Devices

<u>Part Number</u>	<u>Description</u>
PA3545U-1ETC	Toshiba Tablet PC Pen for Portege R400
PA1404U-1ETC	Toshiba Tablet Pen Tether

Carrying Case

<u>Part Number</u>	<u>Description</u>
PA1417U-1NCS	Toshiba Portégé R400 Leather Carrying Case

CPU 64-bit computing:

64-bit processors are designed to take advantage of 32 and 64 bit computing.

64-bit computing requires that the following hardware and software requirements are met:

- 64-bit Operating System
- 64-bit CPU, Chipset and BIOS (Basic Input/Output System)
- 64-bit Device drivers
- 64-bit applications

Certain device drivers and/or applications may not be compatible with a 64-bit CPU and therefore may not function properly. A 32-bit version of the operating system is preinstalled on your computer unless explicitly stated that the operating system is 64-bit. See "Detailed Specs" for more information.

¹ **Product Series Legal Footnote.** 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.

Product Offering Legal Footnote. Toshiba America Information Systems, Inc. reserves the right to modify or withdraw this offer at anytime without notice.

² **Operating System.** 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.

Offers. Offer terms, duration and product availability all subject to change without notice

³ **Processor (Central Processing Unit).**

CPU performance in your computer product may vary from specifications under the following conditions:

1. use of certain external peripheral products
2. use of battery power instead of AC power
3. use of certain multimedia, computer generated graphics or video applications
4. use of standard telephone lines or low speed network connections
5. use of complex modeling software, such as high end computer aided design applications
6. use of several applications or functionalities simultaneously
7. use of computer in areas with low air pressure (high altitude >1,000 meters or >3,280 feet above sea level)
8. use of computer at temperatures outside the range of 5°C to 30°C (41°F to 86° F) or >25°C (77°F) at high altitude (all temperature references are approximate and may vary depending on the specific computer model – please visit the Toshiba website at www.pcsupport.toshiba.com for details).

CPU performance may also vary from specifications due to design configuration.

Under some conditions, your computer product may automatically shut-down. This is a normal protective feature designed to reduce the risk of lost data or damage to the product when used outside recommended conditions. To avoid risk of lost data, always make back-up copies of data by periodically storing it on an external storage medium. Use your computer product only under recommended conditions. Read additional restrictions under "Environmental Conditions" in your product "Detailed Specs." Contact Toshiba Technical Service and Support for more information.

Core™ 2 Duo or Core™ Duo Processor.

Intel® Dual Core Technology is a new technology designed to deliver improved performance to the notebook PC. Performance or compatibility may vary. For more information on Intel's Core 2 Duo processors, visit: <http://www.intel.com/core2duo/>
See 64-Bit Computing Legal Footnote, if applicable.

⁴ **Memory (Main System).** Part of the main system memory may be used by the graphics system for graphics performance and therefore reduce the amount of main system memory available for other computing activities. The amount of main system memory allocated to support graphics may vary depending on the graphics system, applications utilized, system memory size and other factors. For PC's configured with 4 GB of system memory, the full system memory space for computing activities will be considerably less and will vary by model and system configuration.

⁵ **Hard Disk Drive (HDD) Capacity.**

1 Gigabyte (GB) means $10^9 = 1,000,000,000$ bytes using powers of 10. The computer operating system, however, reports storage capacity using powers of 2 for the definition of $1\text{ GB} = 2^{30} = 1,073,741,824$ bytes, and therefore shows less storage capacity. Available storage capacity will also be less if the product includes one or more pre-installed operating systems, such as Microsoft Operating System and/or pre-installed software applications, or media content. Actual formatted capacity may vary.

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1 Gigabyte (GB) means $10^9 = 1,000,000,000$ bytes using powers of 10. The computer operating system, however, reports storage capacity using powers of 2 for the definition of $1\text{ GB} = 2^{30} = 1,073,741,824$ bytes, and therefore shows less storage capacity. Available storage capacity will also be less if the product includes one or more pre-installed operating systems, such as Microsoft Operating System and/or pre-installed software applications, or media content. Actual formatted capacity may vary.

⁷ **Display.** 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.

⁸ **Graphics (Graphics Processing Unit).**

GPU performance may vary depending on product model, design configuration, applications, power management settings and features utilized. GPU performance is only optimized when operating in AC power mode and may decrease considerably when operating in battery power mode.

⁹ **Wireless.** 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. The transmission speed over the wireless LAN and the distance over which wireless LAN can reach may vary depending on surrounding electromagnetic environment, obstacles, access point design and configuration, and client design and software/hardware configurations. The actual transmission speed will be lower than the theoretical maximum speed. To use the Atheros SuperAG™ or SuperG™ wireless function, if available, your client and access point must support the corresponding feature. Performance of these functions may vary depending on the format of data transmitted.

¹⁰ **3G Wireless.** 3G wireless use requires separately purchased subscription service from Verizon Wireless. Access limited to coverage area. See www.verizonwireless.com.

¹¹ **Weight.** Weight may vary depending on product configuration, vendor components, manufacturing variability and options selected.

¹² **Battery Life.** 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 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.

¹³ **Battery Life - MobileMark™.** Measured by MobileMark. MobileMark is a trademark of the Business Applications Performance Corporation.

¹⁴ **EasyGuard.** Toshiba EasyGuard™ technology comprises a number of features some of which may or may not be available on a particular Toshiba notebook depending on the model selected. See www.easyguard.toshiba.com for detailed information.

¹⁵ **Shock Protection.** Toshiba's shock absorption technology provides higher impact protection for your system as compared to Toshiba systems without similar shock protection features based on Toshiba's drop tests. Toshiba's standard limited warranty terms and limitations apply. Visit www.warranty.toshiba.com for details.

¹⁶ **Software.** Some software may differ from its retail version (if available), and may not include user manuals or all program functionality.

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

Internet access is required to enable certain functionality of certain Microsoft products which may be included with this computer.

The Microsoft Office 2007 60-Day Trial software (if applicable) is intended for evaluation purposes only. You must activate the software before you can use it. Product will be detailed during initial launch of the software; activation requires Internet access. This software has an expiration date of 60 days from date of first use, at which time the software will operate under reduced-functionality mode, limiting end-user options and operations. The Microsoft Office 2007 60-Day Trial software is distributed without charge to the End User but if the End User wants to continue to use such product after the trial period, then the End User Customer will have to pay a fee for the perpetual version of such Office software.

For systems with Microsoft Money Essentials 2007 installed, note that some online services for Microsoft® Money 2007 and Microsoft® Money 2007 Essentials will expire 2 years after your activation of the software or September 1, 2009. Also, you may need to get some online services separately from your financial institution, which may have its own online services policy at <http://money.msn.com/Money/2007/OSP.asp>.

¹⁷ **Temperature (Environmental) Conditions.** All temperature references are approximate and the performance of your computer may vary from specifications even when operating within the recommended temperature range.

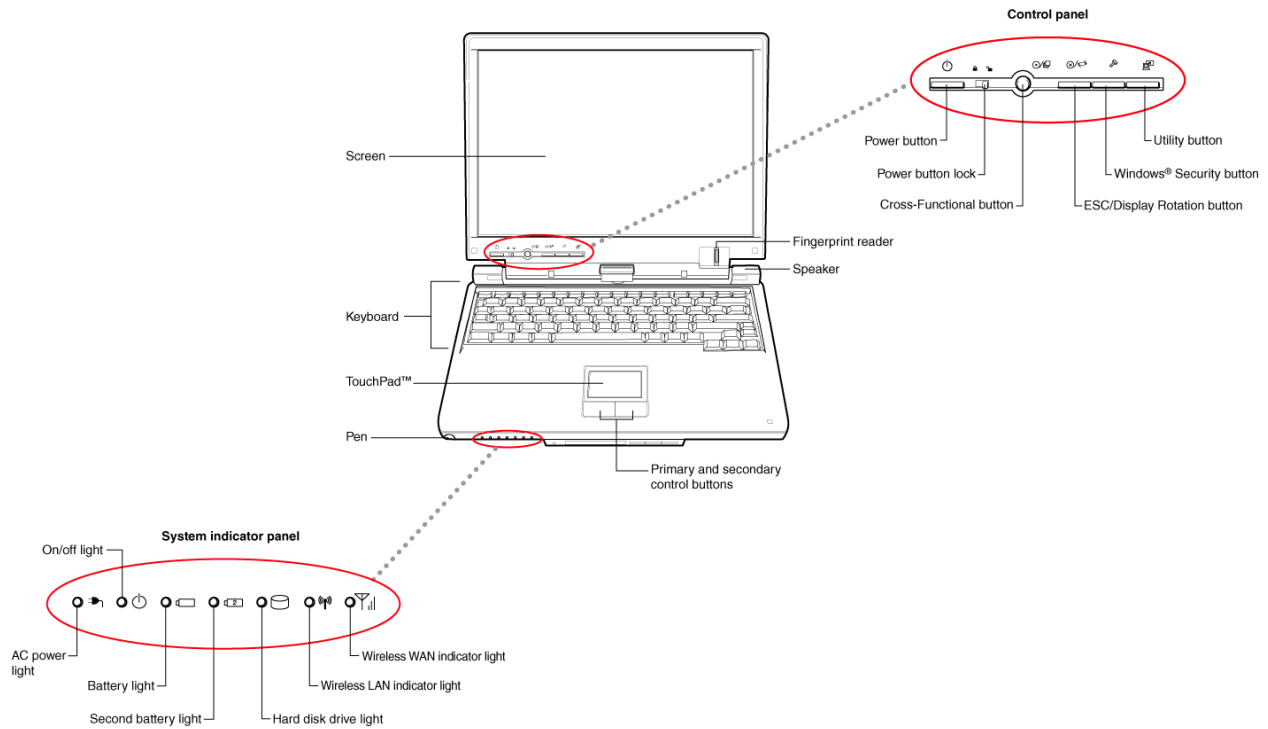
¹⁸ **RoHS.** This notebook is compatible with European Union Directive 2002/95/EC, Restriction of the use of certain Hazardous Substances in electrical and electronic equipment (RoHS), which restricts use of lead, cadmium, mercury, hexavalent chromium, PBB, and PBDE. Toshiba requires its notebook component suppliers to meet RoHS requirements and verifies its suppliers' commitment to meeting RoHS requirements by conducting component sampling inspections during the product design approval process.

¹⁹ **Warranty:** The terms and conditions of Toshiba's standard limited warranty are available at www.warranty.toshiba.com.

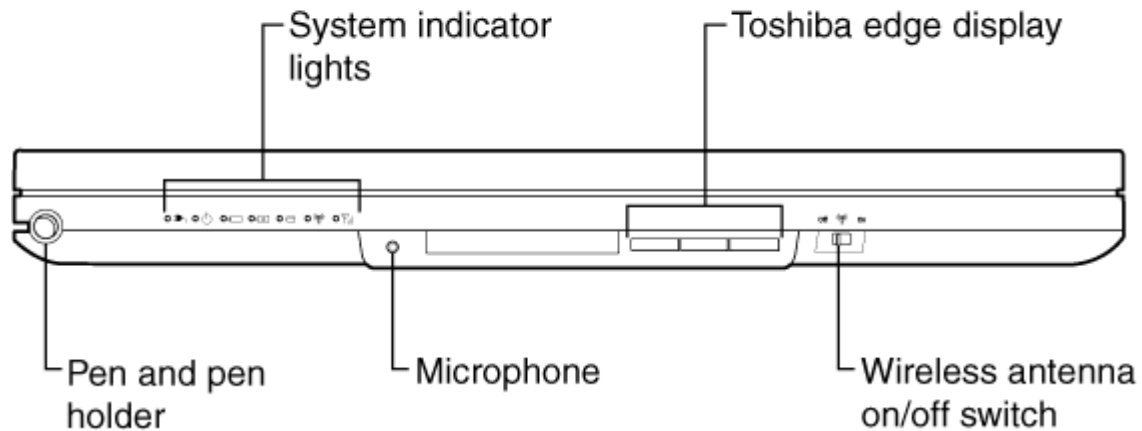
²⁰ **Service Plans:** The terms and conditions of service upgrade and extension plans offered by Toshiba are available at www.pcsupport.toshiba.com.

²¹ **Service Plans:** The terms and conditions of service upgrade and extension plans offered by Toshiba are available at www.pcsupport.toshiba.com.

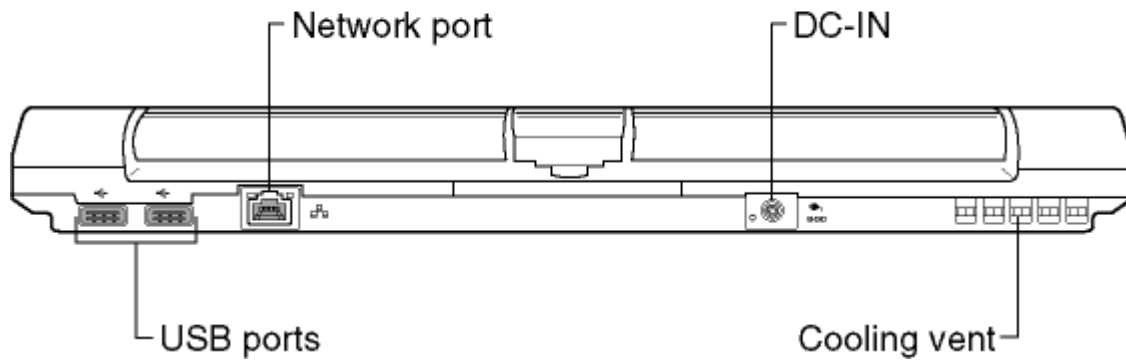
Front with display open



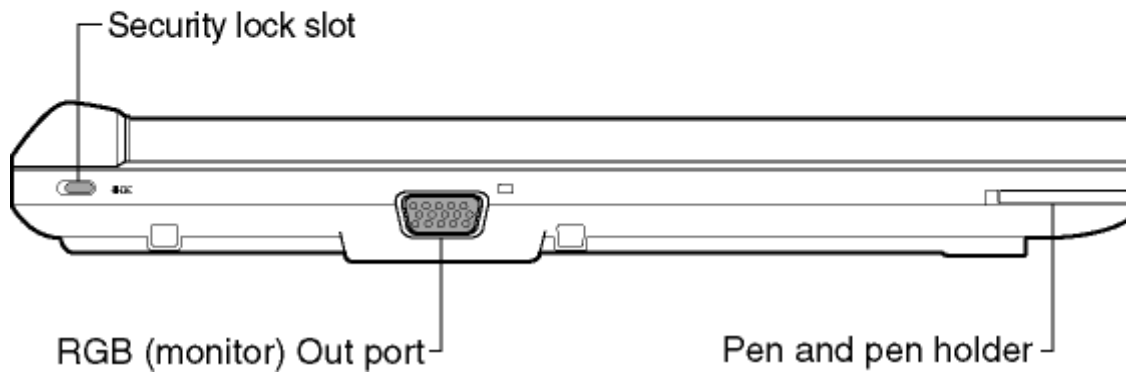
Front with display closed



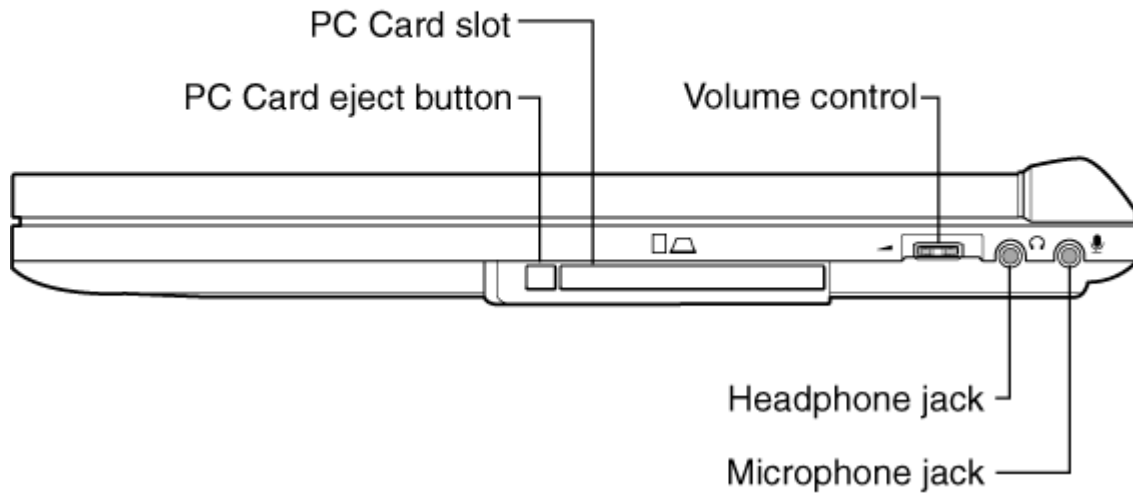
Back



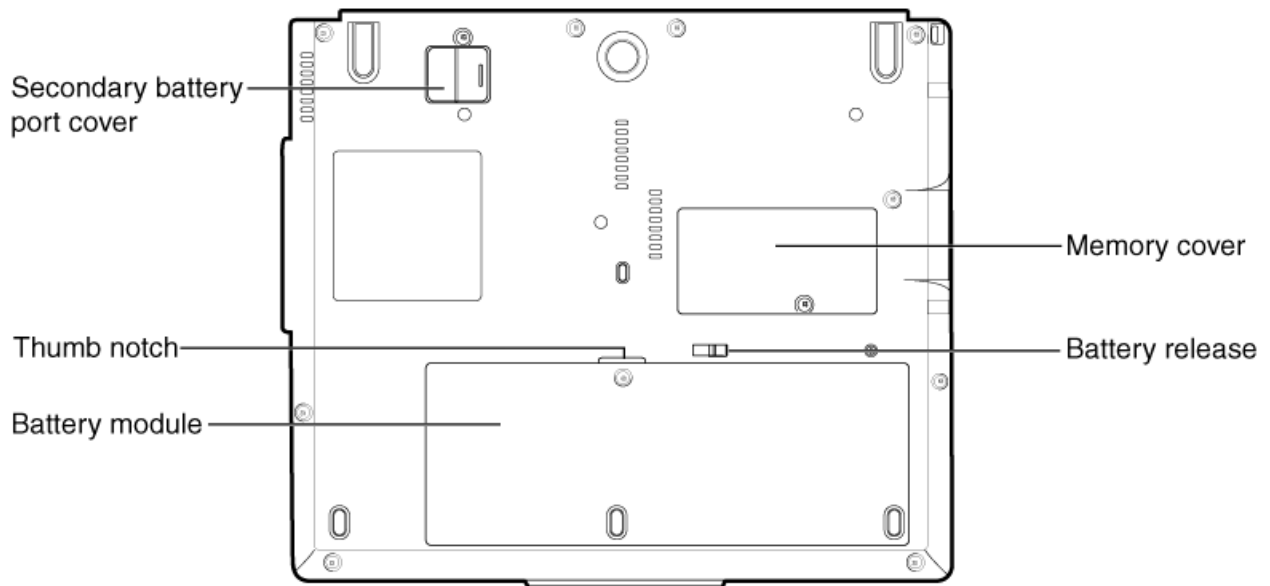
Left side



Right side



Underside



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