

## Portégé R200 Detailed Product Specification<sup>1</sup>

| Model Name | Description  | Part Number   | UPC          |
|------------|--|---------------|--------------|
| R200-S2031 | Microsoft® Windows® XP Professional, Intel Pentium® M Processor Ultra Low Voltage 773, 512MB DDR2, 80GB 4200 rpm PATA, 12.1" XGA, Intel® Graphics Media Accelerator 900, Atheros® 802.11b/g, 3-year standard limited warranty. | PPR21U-01702F | 032017552876 |

### Operating System<sup>2</sup>

- Microsoft® Windows® XP Professional

### Processor and Chipset<sup>3</sup>

- Intel Pentium® M Processor Ultra Low Voltage 773
  - 1.30GHz, 2MB L2, 400MHz FSB
- Mobile Intel® 915GMS Express Chipset

### Memory<sup>4</sup>

- Configured with 512MB PC3200 DDR2 400MHz SDRAM
- 256MB (Min)/1280MB (Max), 256 on-board memory with 1 available memory slot for 256MB, 512MB, or 1024MB PC3200 DDR2 400MHz SDRAM or PC4200 DDR2 533MHz SDRAM memory modules

### Hard Disk Drive<sup>5</sup>

- 80GB (4200 RPM) Enhanced IDE 1.8" hard disk drive; 8.0mm height

### Display<sup>6</sup>

- 12.1" diagonal TFT active-matrix LCD display at 1024x768 native resolution (XGA)
- Brightness Control

### Graphics<sup>7</sup>

- Intel® Graphics Media Accelerator 900 with 8MB-128MB dynamically allocated shared graphics memory

### Sound

- Analog Devices AD1981B 16-bit stereo software sound
  - Supports Direct 3D Sound, DirectSound, Direct Music, MIDI (playback)
- Sound Volume Control Dial
- Built-in monaural speaker
- Built-in microphone

### Input Devices

- Keyboard
  - 84 key US keyboard
  - Hot Key Functions (Fn)
  - Windows Key Function
  - Application Key Function
- TouchPad™ pointing device
- TouchPad™ Enable/Disable (FN+F9 or by help of software)
- Control Buttons:
  - Toshiba Assist button to launch Toshiba Assist control panel
  - Presentation button to quickly connect to projectors

### Communications

- Toshiba V.92 software modem<sup>8</sup>
- Marvell 10/100/1000 Base-TX Ethernet
- Atheros® 802.11b/g wireless-LAN supporting Atheros SuperG™ technology<sup>9</sup>

- Bluetooth® version 2.0 plus Enhanced Data Rate (EDR) with Toshiba Bluetooth driver software
- Fast Infrared (4Mbps) port for FIR

### Expandability

- 1 expansion memory slot.
- 1 PC Card slot support 1 Type II, PCMCIA R2.01, PC Card16, CardBus
- Secure Digital slot (supports SDIO)

### Ports

- Video
  - RGB (monitor) output port
- Audio
  - Headphone output port
- Data
  - Universal Serial Bus (USB v2.0) – 2 ports
  - RJ-45 LAN port
  - RJ-11 modem port

### Physical Description for this Product Series

- Dimensions (WxDxH Front/H Rear): 11.25" (286.0mm) x 9.01" (229.0mm) x 0.30" (9.90mm)[F]/0.77" (19.8mm)[R] without feet
- Weight: Starting at 2.68 lbs (1.22 kg) depending upon configuration<sup>10</sup>
- Indicators: DC-In, Power, Primary Batter, Hard Disk Drive, Wireless Indicator, Caps Lock, Arrow Lock, Numeric Lock, Main Battery Charging Status, Sleep/Suspend Mode, SD Card
- Chassis Description
  - Case material: Magnesium
  - LCD Cover Color: Titanium Silver
- Physical Security
  - Slot for cable lock;
  - Items protected by a screw: Memory, Main HDD
- Software Security
  - Passwords: User power-on password, supervisor password
  - Hotkey locks: Keyboard Lock, Screen Blank

### Power Supply

- 45W (15V x 3A) Auto sensing external AC Adapter, 100-240V / 50-60Hz frequency (Universal) input.
- Dimensions (WxDxH): 3.66" (93.0mm) x 1.09" (27.7mm) x 1.57" (40.0mm)
- Weight: starting at 0.42 lbs (190 g)

### Battery<sup>11</sup>

- 6-cell (3800mAh) rechargeable, removable Lithium Ion (Li-Ion) battery pack
- Dimensions (WxDxH): 8.76" (222.5mm) x 3.30" (83.87mm) x 0.48" (12.2mm)
- Weight: starting at 0.58 lbs (265 g)
- Battery Life (measured by MobileMark™)<sup>12</sup>
  - Included 6-cell battery: 4 hours, 30 minutes
  - Optional Secondary battery:
    - 9 hours, 29 minutes with 6-cell primary

- Recharge Time
  - Main Battery Off/On – approximately 3.5 hrs / more than 4.5 hrs
  - Main Battery + Secondary Battery Off/On – approximately 7.0 hrs / more than 9.0 hrs.

## Toshiba EasyGuard™<sup>13</sup>

- Protect & Fix
  - Shock Absorbing Design<sup>14</sup>
    - 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)
  - Trusted Platform Module (TPM v1.1)
  - TOSHIBA Secure Digital Token Utility
  - Execute Disable Bit
- Connect
  - TOSHIBA ConfigFree®
  - TOSHIBA Bluetooth® Stack
- Optimize
  - Presentation Button
  - TOSHIBA Zooming Utility
  - One-touch Resolution Change
  - TOSHIBA Power Saver Utility
  - Wireless On/Off Switch
  - TOSHIBA Fn-esse® Shortcut Utility
  - TOSHIBA Mouse Utility
  - FN Shortcut Keys

## BIOS

- TSETUP, APM v1.2, ACPI v1.0b, PNP v1.0, VESA, DPMS, DDC, SM BIOS v2.3, PCI BIOS v2.1 support

## Software<sup>15</sup>

- Toshiba Software and Utilities
  - TOSHIBA ConfigFree®
  - TOSHIBA Custom Utilities
  - Electronic User's Guide
- Third-party Software
  - Microsoft Office® OneNote® 2003
  - Microsoft Works® Version 8.0
  - Sun® Java™ 2 Runtime Environment
  - Adobe® Acrobat® Reader
  - InterVideo® WinDVD® 5
  - Sonic Solutions® RecordNow!™ Basic for Toshiba
  - Sonic Solutions® Drive Letter Access™ (DLA)
  - Microsoft® Windows Media Player version 10
- Trial Software
  - AOL® Internet Service (90-day trial)<sup>16</sup>

## Environmental Specifications

|                                    | Operating                     | Non-operating                    |
|------------------------------------|-------------------------------|----------------------------------|
| Temperature <sup>17</sup>          | 5° to 35° C<br>(41° to 95° F) | -20° to 65° C<br>(-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 95%                       |
| Altitude (relative to sea level)   | -60 to 3,000 meters           | -60 to 10,000 meters             |
| Shock                              | 7G, 1.5G if ODD installed     | 60G                              |
| Vibration                          | 0.2G, 0.25G if ODD installed  | 1.0G                             |

- This product is compatible with European Union Directive 2002/95/EC, Restriction of the use of certain Hazardous Substances in electrical and electronic equipment (RoHS)<sup>18</sup>, restricting use of lead, cadmium, mercury, hexavalent chromium, PBB, and PBDE.

## TECRA / PORTEGE – 3 YEAR STANDARD LIMITED WARRANTY<sup>19</sup>

### Service Upgrades and Extensions

Toshiba offers many different enhanced services such as SystemGuard®, At-Home Repair, and Service Express 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](http://www.pcsupport.toshiba.com).

## Recommended Services

### Extended Service Plans

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/ ServiceExpress<sup>20</sup>

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 + Business On-Site Repair<sup>21</sup>

Combines SystemGuard and Business 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.

| Part Number | Description                                  |
|-------------|--|
| 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.

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

### Business On-Site Repair

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

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

## Accessories

For the most updated accessories, please visit  
[www.accessories.toshiba.com](http://www.accessories.toshiba.com)

### Memory

| Part Number  | Description                             |
|--------------|---|
| PA3412U-2M51 | Toshiba 512MB DDR2-533 Memory Kit, RoHS |
| PA3411U-2M1G | Toshiba 1GB DDR2-533 Memory Kit, RoHS   |

### Power

| Part Number  | Description   |
|--------------|---|
| PA3241U-2ACA | Toshiba 45W Global AC Adapter, RoHS                   |
| PA3283U-3ACA | Toshiba 75W Global AC Adapter, RoHS                   |
| PA3444U-1BRS | Toshiba Primary Li Ion Battery Pack (6 Cell), RoHS    |
| PA3155U-2BRL | Toshiba High Capacity 2nd Battery Pack (6 Cell), RoHS |

### Expansion

| Part Number  | Description   |
|--------------|---|
| PA3438U-2CD2 | Toshiba External USB 2.0 CD-RW/DVD-ROM Combination Drive (Clamshell type, Silver) |
| PA3454U-1DV2 | Toshiba External USB 2.0 DVD SuperMulti Drive (Clamshell type, Silver)            |
| PA3156U-3PRP | Toshiba Slim Port Replicator, RoHS  |

## Security & Protection

| Part Number   | Description                                       |
|---------------|---|
| PA1402U-1NCS  | Toshiba Executive Leather Portfolio for R200/R205 |
| PA410U Targus | DEFCON CL Cable Lock                              |

### Storage

| Part Number  | Description                             |
|--------------|---|
| PA1399U-1MEM | Toshiba 1GB USB Hi-Speed Flash Drive    |
| PA3109U-3FDD | Toshiba USB Floppy Disk Drive Kit, RoHS |

### Wireless/Bluetooth

| Part Number  | Description  |
|--------------|--|
| PA1381U-1ETC | Toshiba Wireless Audio Headphone with Bluetooth Technology |
| PA1380U-1NMS | Toshiba Wireless Travel Mouse with Bluetooth Technology    |

## 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>

## 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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ToshibaDirect website: <http://www.toshibadirect.com>

TAIS website for resellers: <http://sell.toshiba.com>

TAIS PC Support website: <http://pcsupport.toshiba.com>

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<sup>1</sup> **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](http://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.

<sup>2</sup> **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

<sup>3</sup> **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](http://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.

<sup>4</sup> **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.

<sup>5</sup> **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.

<sup>6</sup> **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 with dim and you may not be able to increase the brightness of the screen while on battery power.

<sup>7</sup> **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.

<sup>8</sup> **Modem Speed.** Due to FCC limitations, speeds of 53 kbps are the maximum permissible transmission rates during download. Actual data transmission speeds will vary depending on line conditions.

<sup>9</sup> **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.

<sup>10</sup> **Weight.** Weight may vary depending on product configuration, vendor components, manufacturing variability and options selected.

<sup>11</sup> **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](http://www.accessories.toshiba.com).

<sup>12</sup> **Battery Life - MobileMark™.** Measured by MobileMark. MobileMark is a trademark of the Business Applications Performance Corporation.

<sup>13</sup> **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](http://www.easyguard.toshiba.com) for detailed information.

<sup>14</sup> **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](http://www.warranty.toshiba.com) for details.

<sup>15</sup> **Software.** Some software may differ from its retail version (if available), and may not include user manuals or all program functionality.

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).

<sup>16</sup> **AOL® Internet Service.** Availability may be limited, especially during peak times. TO AVOID BEING CHARGED A MONTHLY MEMBERSHIP FEE, SIMPLY CANCEL BEFORE THE THREE-MONTH PROMOTIONAL PERIOD ENDS. Premium services carry surcharges and communication surcharges may apply, including AK, even during promotional period. Members may incur telephone charges on their phone bill, depending on their location and calling plan, even during promotional period. Available to new AOL members in the United States, age 18 or older; a major credit card or checking account is required.

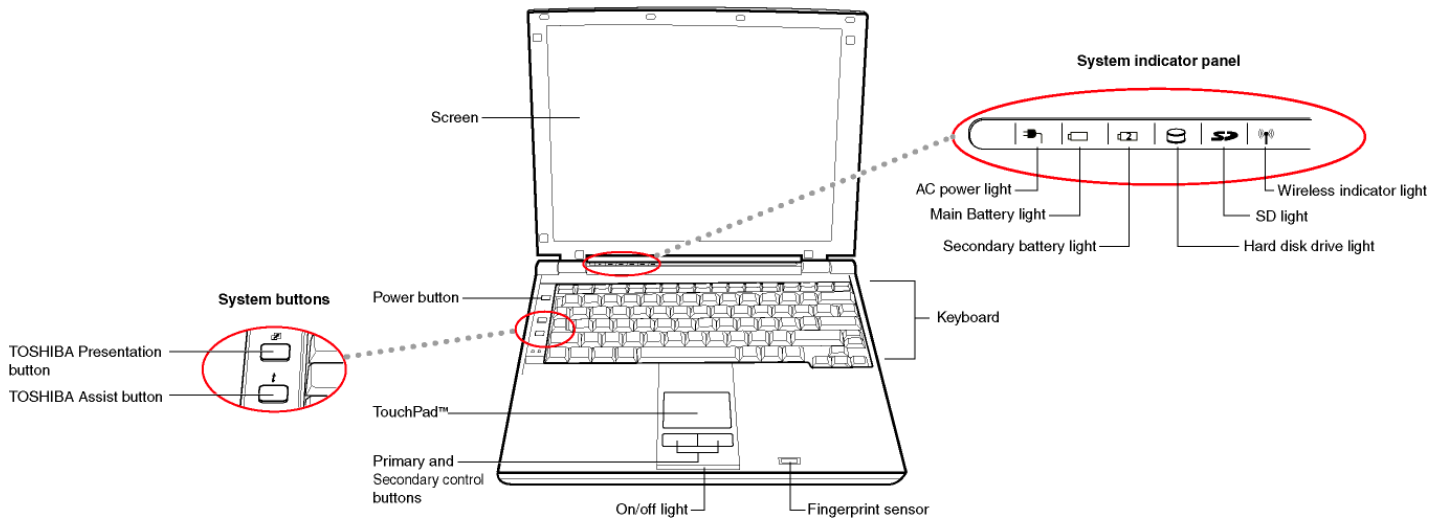
<sup>17</sup> **Temperature (Environmental) Conditions.** All temperature references are approximate and the performance of your computer may vary from specifications even when operating within the recommended temperature range.

<sup>18</sup> **RoHS.** This product 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.

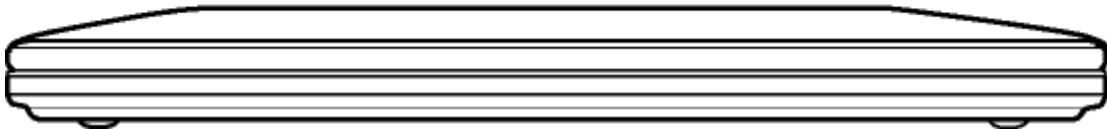
<sup>19</sup> **Warranty:** Toshiba's standard limited warranty terms and conditions are available at [www.warranty.toshiba.com](http://www.warranty.toshiba.com).

<sup>20</sup> **SystemGuard:** SystemGuard coverage must be purchased within the first 30 days of notebook purchase. See Toshiba Service Plan Agreement for program terms and conditions at [www.pcsupport.toshiba.com](http://www.pcsupport.toshiba.com).

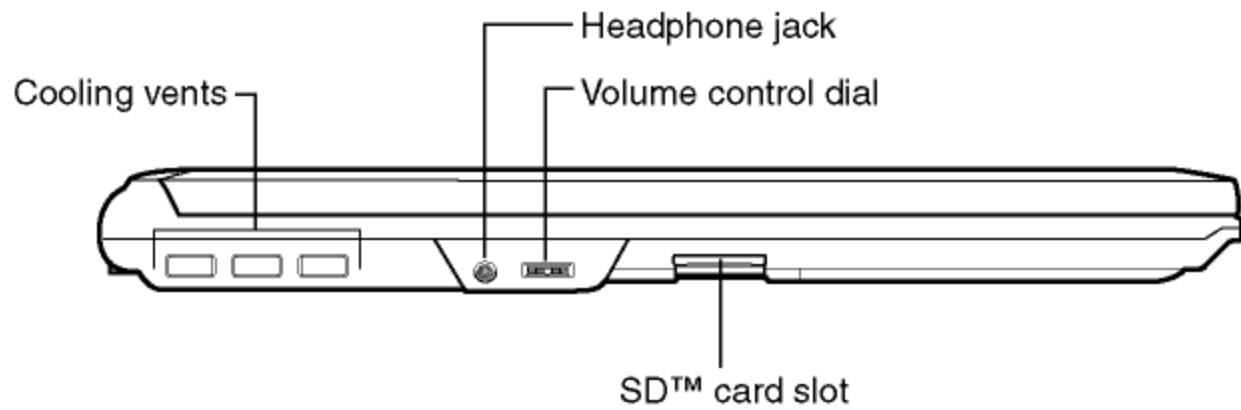
## Front with display open



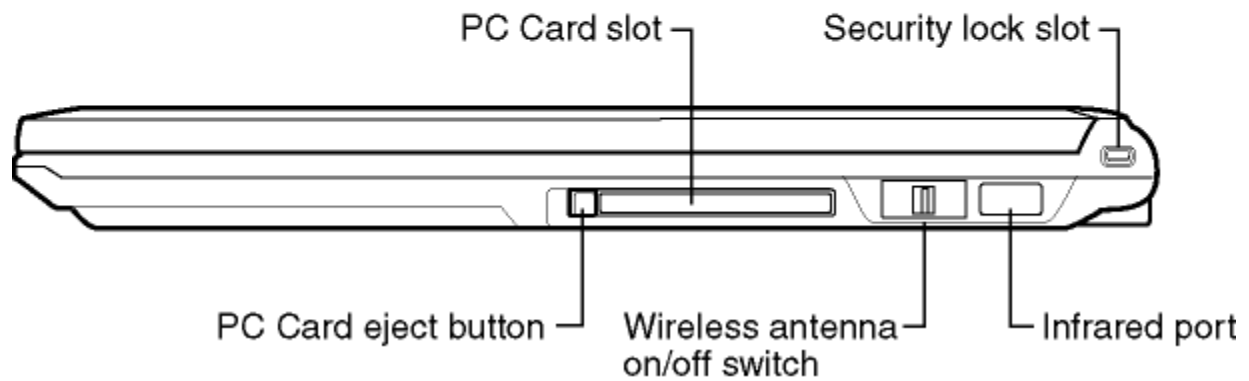
## Front with display closed



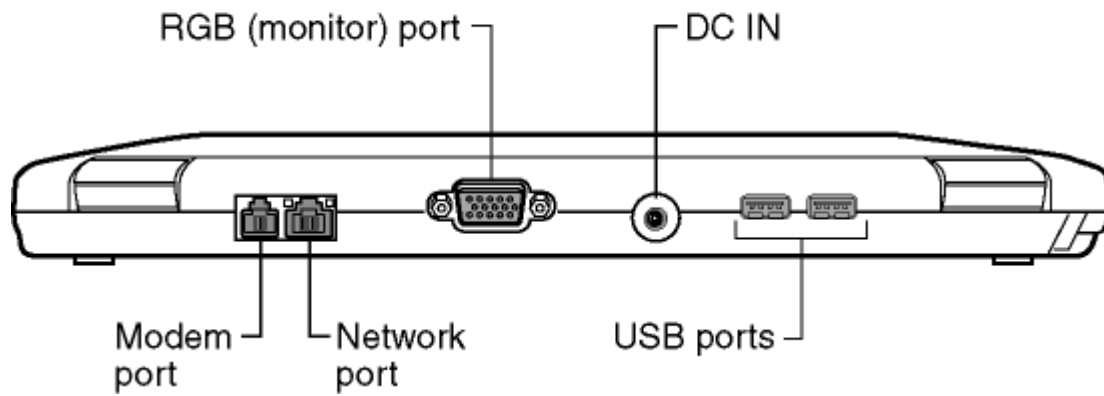
## Left side



## Right side



# Back



# Underside

