

# TOSHIBA

## Portégé® 4000/4005 Series

Maximum mobility and connectivity

### Product Highlights

- **Performance**
  - Mobile Intel® Pentium® III Processor, 750MHz featuring Intel® SpeedStep™ Technology
  - SDRAM expandable to 1GB (1024MB)
- **Great Features!**
  - New 2-spindle device (Slim SelectBay)
  - 12.1" diagonal TFT Poly-silicon LCD (XGA)
- **Always Connected!**
  - Optional integrated Agere or Cisco Wi-Fi™ compliant Wireless LAN Mini PCI (802.11b)
  - Optional integrated Bluetooth (v1.1)
  - Integrated 10/100 BaseTX Ethernet
  - Integrated V.90 56K modem

Custom Configuration options listed below are highlighted

### System Characteristics

#### Processor (See CPU Performance Disclaimer)

Intel® Mobile Pentium® III 750MHz (1.35V) processor featuring Intel® SpeedStep™ Technology

Integrated co-processor  
256KB Level 2 cache integrated on die  
100MHz front side bus clock speed (FSB)  
Trident CyberALADDiN System Chipset

#### Memory

128-1024MB  
Module type: SODIMM  
128, 256, 512MB PC133 SDRAM, 3.3V

#### Mass Storage

##### Primary Hard Drive

10, 20, 30GB and 40GB\* 2.5" Enhanced IDE (ATA-5)

User Removable  
9.5mm height  
12/14ms\*\* average seek time (read/write)  
2.5/3ms\*\*\* track to track seek time (read/write)  
Drive rotation: 4200rpm

##### Slim SelectBay CD-ROM

5.25" EIDE (ATAPI), 12.7mm height  
Max speed: 24X CD-ROM  
110ms random access time  
3,600KB/sec max data transfer rate  
Compatibility: CD-ROM, CD-R (read only), CD-RW (read only)  
Internal use in Slim SelectBay (User removable)

##### Slim SelectBay DVD-ROM (standard on 4005)

5.25" EIDE (ATAPI), 12.7mm height  
Max speed: 8X DVD-ROM, 24X CD-ROM  
100ms random access time (DVD-ROM)  
95ms random access time (CD-ROM)  
10,816KB/sec max data transfer rate (DVD-ROM)  
3,600KB/sec max data transfer rate (CD-ROM)  
Compatibility: CD-ROM, CD-R (read only), CD-RW (read only), DVD-ROM, DVD-R (read only)  
Internal use in Slim SelectBay (User removable)

##### Slim SelectBay CD-R/RW

5.25" EIDE (ATAPI), 12.7mm height  
Max speed: 8X CD-RW, 8X CD-R, 24X CD-ROM  
110ms random access time  
3,600KB/sec max data transfer rate (CD-ROM)  
1,200KB/sec max data transfer rate (CD-R, CD-RW)  
Compatibility: CD-ROM, CD-R (read/write), CD-RW (read/re-write)  
Internal use in Slim SelectBay (User removable)

##### Slim SelectBay DVD-ROM/CD-RW

5.25" EIDE (ATAPI), 12.7mm height  
Max speed: 8X DVD-ROM, 4X CD-RW, 8X CD-R, 24X CD-ROM  
180ms access time (DVD-ROM)  
130ms access time (CD-ROM)  
10,800KB/sec max data transfer rate (DVD-ROM)  
600KB/sec max data transfer rate (CD-RW)  
1,200KB/sec max data transfer rate (CD-R)

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3,600KB/sec max data transfer rate (CD-ROM)  
Compatibility: CD-ROM, CD-R (read/write), CD-RW (read/re-write), DVD-ROM, DVD-R (read)  
Internal use in Slim SelectBay (User removable)

##### Slim SelectBay Battery

Lithium Ion (10.8V, 3000mAh)  
Battery life may vary depending on applications, power management settings and features utilized. Recharge time varies depending on usage.

Internal use in Slim SelectBay (User removable)

##### Slim SelectBay Hard Drive (Adapter required)

30GB\* - Enhanced IDE (ATA-5)

##### USB Floppy Drive

3.5", 1.44MB

#### Graphics/Video

##### Display

12.1" TFT Poly-silicon Color LCD (XGA)  
Internal display supports up to 16M colors

##### Graphics Controller

Trident CyberBlade XP 2D/3D graphics core, 16MB UMA Video Memory  
128bit BitBLT engine, 66MHz x4 (4x AGP)

##### DVD Audio/Video

InterVideo WinDVD (Software DVD decoder)

##### External Color Support

800x600, 640x480: 60/75/85Hz Non-Int'l'd @16M colors  
1024x768: 60/75Hz Non-Int'l'd @16M colors (60/75/85Hz Non-Int'l'd @ 64K colors)  
1280x1024: 60/75/85Hz Non-Int'l'd @ 64K colors  
1600x1200: 60Hz Non-Int'l'd @ 64K colors

#### Input Devices

##### Keyboard

84 keys with 12 function keys  
2mm key stroke, 4.8mm height, 19mm key pitch  
Dedicated Application and Windows keys  
Integrated AccuPoint II pointing device with user-programmable buttons

#### Expandability

2 memory slots (including main memory)  
2 PC Card slots support two Type II or one Type III PC Cards; PCMCIA R2.01, PC Card16, CardBus  
1 Slim SelectBay  
1 SD card slot

##### Ports

RGB (monitor) port  
Fast Infrared (4Mbps, IrDA1.1)  
2 Universal Serial Bus (USB) ports (v1.1)  
RJ-11 modem port  
RJ-45 Ethernet port  
240 pin docking connector

#### Sound

Integrated ALi M1535 PCI bus sound chip  
16-bit stereo  
3D Sound Support, Direct 3D Sound  
Hardware acceleration for DirectMusic and DirectSound  
Full Duplex support  
Sound volume control dial  
Built-in stereo speakers, Built-in microphone  
Microphone port, Stereo headphone port

#### Communication

Integrated V.90 56K modem  
Integrated 10Base-T/100Base-TX Ethernet  
Integrated Fast Infrared (4Mbps)  
Optional integrated Agere or Cisco Wi-Fi™ compliant Wireless LAN Mini PCI (802.11b)  
Optional integrated Bluetooth (v1.1)

#### Physical Description

Dimensions (WxDxH): 10.6" x 9.8" x 1.2"/1.5"  
Weight: 4.34 lbs (w/ DVD), 3.81 (w/ Weight Saver)  
LEDs: Power, DC-In, Main Battery, Primary Hard Drive, Slim

SelectBay device, Wireless indicator, and SD card  
Caps Lock, Arrow Mode, Numeric Lock

#### Power

##### AC Adapter

45W (15V x 3A) external AC Adapter w/ Velcro tape  
100-240V input voltage, 50/60Hz frequency  
3.9"W x 1.0"D x 2.0"H, 0.5 lbs.

##### Battery Pack

Rechargeable, removable Li-Ion battery  
10.8V x 3600mAh capacity

[Battery life may vary depending on applications, power management settings and features utilized. Recharge time varies depending on usage.](#)

#### Security

Slot for cable lock  
Biometrics: BIOS and OS level support (w/ PC Card Fingerprint Reader)  
Supervisor password  
Memory, HDD and Modem/LAN (by screw only)  
User Power-on, HDD, and Supervisor passwords  
Screen Saver by software

#### Bios

TSETUP, APM V1.2, ACPI V1.0b, PnP V1.0a, VESA V2.0, DPMS Support, DDC2B Support, SM BIOS V2.3, PCI BIOS V.2.2 Support

#### Operating System

[4000: Microsoft® Windows® XP Professional, 2000, 98SE](#)

[4005: Microsoft Windows XP Professional](#)

#### Additional Software

VirtualTech™  
SPANworks™<sup>AA</sup>  
Adobe® Acrobat® Reader™  
Lotus SmartSuite<sup>A</sup>  
Norton Antivirus<sup>A</sup>  
[Toshiba Great Software Offer](#)  
Windows Media Player  
Intervideo™ WinDVD  
Roxio Easy CD Creator<sup>AA</sup>  
Microsoft® Internet Explorer®  
Toshiba custom utilities  
Electronic User Guide  
User Guide may differ from the retail version (if available) and may not include user manuals or all program functionality.

#### Warranty

4000: 3 years parts and labor, 1 year battery  
4005: 1 year parts, labor, and battery

#### Environmental Specifications

##### Temperature:

Operating: 5° to 35° C (41° to 95° F)  
Non-operating: -20° to 65° C (-4° to 149° F)

##### Thermal gradient:

Operating: 15° C per hour maximum  
Non-operating: 20° C per hour maximum

##### Relative Humidity:

Operating: 20% to 80% non-condensing  
Non-operating: 10% to 90% non-condensing

##### Altitude (relative to sea level):

Operating: -197 to 9,842 feet  
Non-operating: -197 to 32,808 feet

##### Shock:

Operating: 7G, 1.5G when CD/DVD-ROM installed  
Non-operating: 60G

##### Vibration:

Operating: 0.2G, 2.5G when CD/DVD-ROM installed  
Non-operating: 1.0G

## Accessories

KTT-SO133/128	128MB Memory
KTT-SO133/256	256MB Memory
KTT-SO133/512	512MB Memory
PA3109U-1FDD	3.5" External Floppy Disk Drive (USB)
PA3115U-1H20	20GB* HDD
PA3116U-1H30	30GB* HDD (req. HDD adapter)
PA3082U-1PRP	Advanced Port Replicator
PA3090U-1ETC	Slim SelectBay HDD adapter
PA3084U-1BRS	Primary Battery
PA3096U-1BRS	Secondary Battery (Slim SelectBay)
PA3091U-1CHG	Battery Charger
PA3083U-1ACA	Universal 75 Watt AC Adaptor
PA3117U-1CDD	Slim SelectBay CD-ROM Drive
PA3087U-1DVD	Slim SelectBay DVD-ROM Drive
PA3088U-1CD1	Slim SelectBay CD-R/RW Drive
PA3089U-1CD2	Slim SelectBay DVD-ROM/CD-RW Drive
PA3066U-1PCC	PC Card Fingerprint Reader
8485582350	Agere AP-1000
NWCC38630	Tecra Carry all, black

## Part Number/UPC/Specifications

PP400U-000829 / 032017127722  
750/12T/128/20/DVD/M/L/WXP/2K

PP400U-003009 / 032017127739  
750/12T/256/30/DVD/M/L/WLAN/WXP/2K

4005: PP400U-002G2J / 032017122017  
750/12T/256/20DVD/M/L/XP-Pro

\*GB = 1 billion byte  
\*\*13/13ms on 10GB HDD  
\*\*\*3/3ms on 10GB HDD  
^ Portégé 4005 only  
^^ Portégé 4000 only

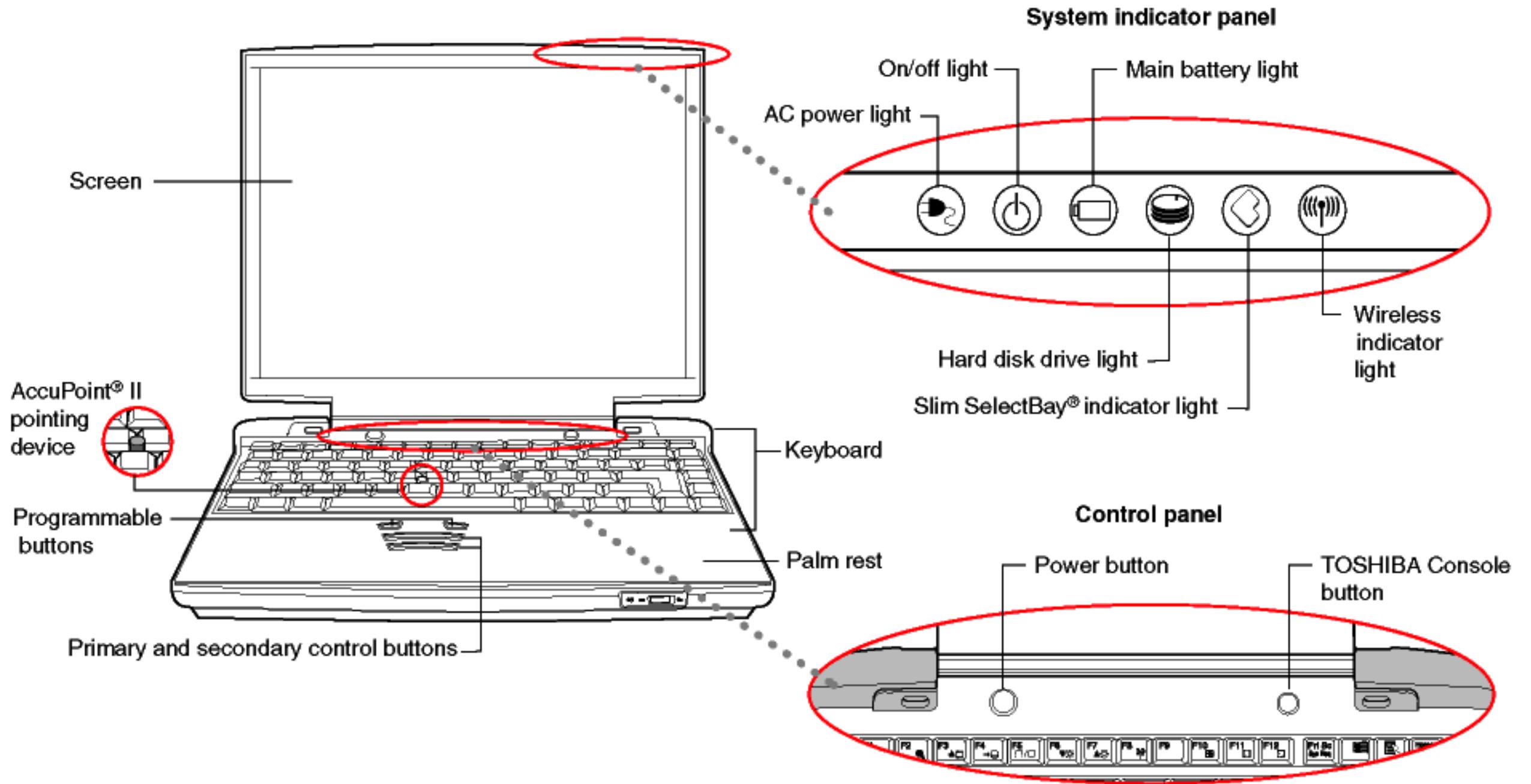
### Central Processing Unit ("CPU") Performance Disclaimer:

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

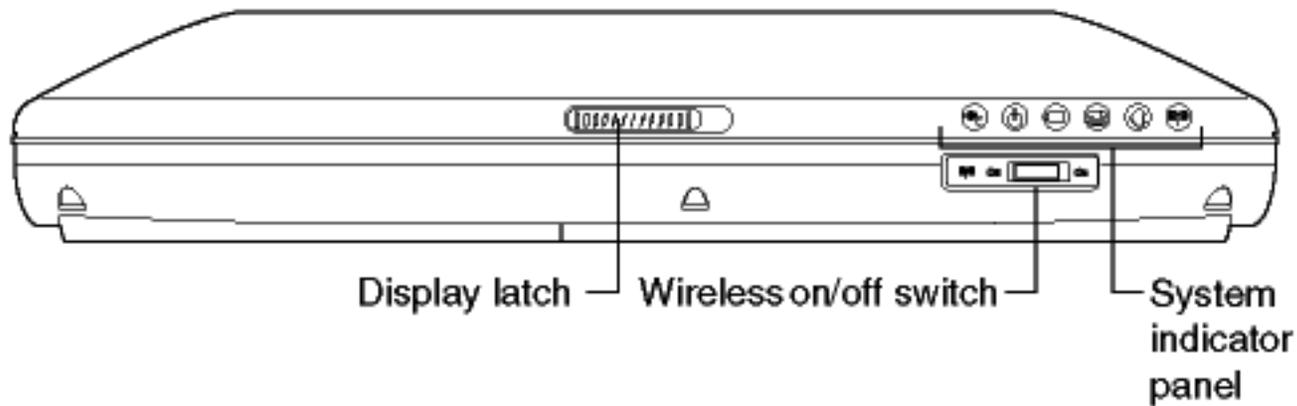
- use of certain external peripheral products
- use of battery power instead of AC power without changing factory pre-set power management settings
- use of certain multimedia games or videos with special effects
- use of standard telephone lines or low speed network connections
- use of complex modeling software, such as high end computer aided design applications
- use of computer in areas with low air pressure (high altitude >1,000 meters or >3,280 feet above sea level)
- use of computer at temperatures outside the range of 5°C to 35°C (41°F to 95°F) or >25°C (77°F) at high altitude (all temperature references are approximate).

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. For optimum performance, use your computer product only under recommended conditions. Read additional restrictions under "Environmental Conditions" in your product Resource Guide. Contact Toshiba Technical Service and Support for more information.

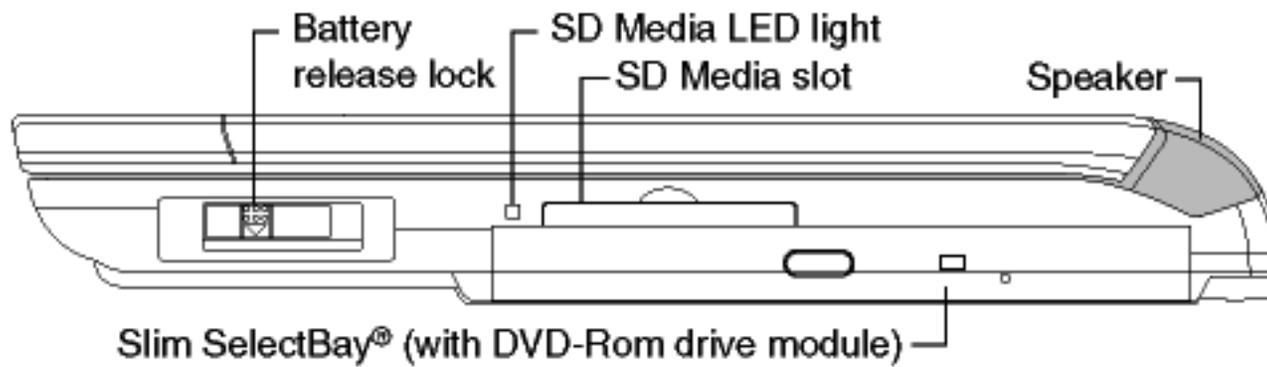
# Front with display open



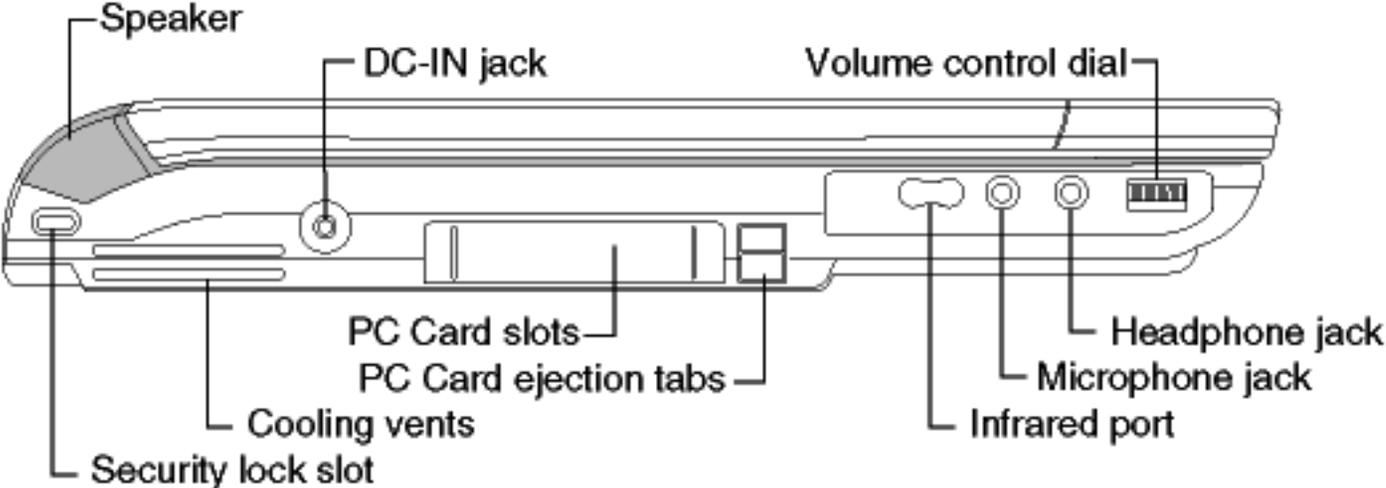
## Front with display closed



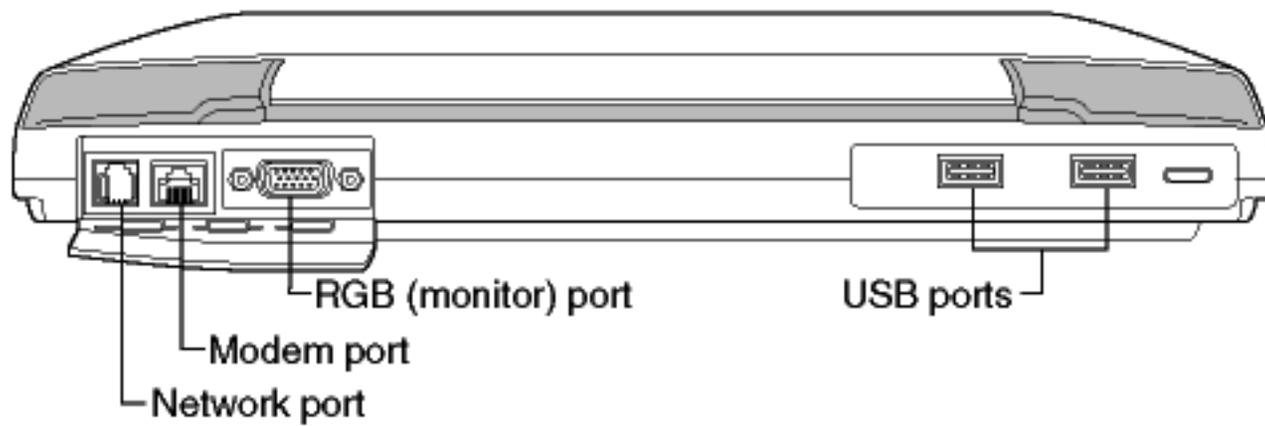
## Right side



# Left side



# Back



# Underside

