TOSHIBA

Product Name: Tecra M1

Featured Model(s)*:

	Part Numbers
1.6GHz, 14.1"XGA, 512MB, 60GB, DVD-CDRW, Intel 802.11b, 9 cell, Windows XP Pro	PT930U-03YCV7
1.4GHz, 14.1"XGA, 256MB, 40GB, DVD, Intel 802.11b, 9 cell, Windows XP Pro	PT930U-03NE37

* Other configurations available

Custom Configuration options
and optional items listed below are highlighted

Product Highlights

- ***Stability:*** Toshiba's award-winning Tecra® family offers corporate customers a stable platform, consistent image and long product lifecycles (12+ months) to reduce total cost of ownership.

- ***Connectivity – Your Way:*** The Tecra M1 includes integrated Wi-Fi (IEEE 802.11b or a/b dual band support) wireless communication, so users can get connected while on the road without the hassle of cords or cables and enjoy faster data rates. Bluetooth wireless technology, fast infrared, built-in V.92 modem, 10/100/1000 Ethernet and PC Card support for a 3G connectivity round out the notebook's unlimited connectivity options. In addition, the Tecra M1 provides Gigabit Ethernet for faster connections and hi-speed data transfer.

- ***Productivity & Power for the Mobile Professional:*** Incorporating the Intel® Centrino™ mobile technology, Tecra M1 users experience a breakthrough level of mobile performance, extended battery life (up to 5+ hours/10+ with optional Select Bay™ battery) and enhanced wireless connectivity for improved productivity whether traveling or in the office. Offering multiple ports and the first corporate platform to provide DVD-RAM/RW capabilities as well as 2GB of memory for those power-hungry projects, customers need look no further than the Tecra M1 for the notebook that has it all.

- ***Enhanced Usability:*** Toshiba understands the business professional requires more than just computing power in their notebook PC. Therefore, the Tecra M1 provides enhanced features such as a brightness sensor to control the display in different environmental settings and a one-touch presentation button so the user can easily connect to a projector. In addition, the unit also offers dual mouse control (pointing device and touchpad) functionality and Toshiba's own Config-Free software for easy troubleshooting to ensure fast Wi-Fi connections.

- ***Common Accessories and Docking:*** Adding convenience while saving time and money, the Tecra M1 shares common docking and Slim Select Bay® accessories with Toshiba's award-winning Portégé® 4000 Series, Satellite Pro® 6000 Series, Satellite Pro M10, Tecra 9000 Series and Tecra S1 notebooks which is a welcome addition to any business looking to reduce overall costs. Additionally, for hi-speed connection to a variety of peripherals, the Tecra M1 includes a new Advanced Port Rep with USB 2.0 support.

System Characteristics

Processor *(See CPU Performance Disclaimer)*****

- Intel® Pentium M processor at 1.70, 1.60 or 1.40 GHz
- Intel 855PM system chipset
- 400MHz processor side bus clock speed
- 1MB Level 2 Cache integrated on die

Memory

- 256-2048MB SODIMM memory
- 256MB, 512MB, 1024MB PC2100 DDR SDRAM, 2.5V

Mass Storage

- 60, 40, 30GB* Enhanced IDE (ATA-5) hard disk drive; 9.5mm height; 60 & 40GB: 5400rpm; user removable
- Slim SelectBay CD-ROM, 5.25" EIDE, 12.7mm height, 24X CD-ROM speed. Compatibility: CD-ROM, CD-R (read only), CD-RW (read only).
- Slim SelectBay DVD-ROM, 5.25" EIDE, 12.7mm height. Compatibility: CD-ROM, CD-R, CD-RW, DVD-ROM, DVD-R, DVD-RAM (all read only).
- Slim SelectBay DVD-ROM/CD-RW, 5.25" EIDE, 12.7mm height. Compatibility: CD-ROM, CD-R (read/write), CD-RW (read/rewrite), DVD-ROM, DVD-R (read only), DVD-RW (read only), DVD-RAM (read only).
- Slim SelectBay DVD Multi Drive, 5.25" EIDE, 12.7mm height. Compatibility: CD-ROM, CD-R (read/write), CD-RW (read/write), DVD-ROM, DVD-R (read/write), DVD-RW (read/write), DVD-RAM (read/write).
- Slim SelectBay Battery, Lithium Ion (10.8V, 3600mAh)
- Slim SelectBay Hard Disk Drive: 30, 40 and 60GB (Adapter required)
- USB Floppy Drive, 3.5", 1.44MB

Display

- 14.1" TFT active-matrix LCD; internal display supports up to 16M colors at 1024 x 768 (XGA) or 1400 x 1050 (SXGA+)
- Automatic brightness control

Graphics

- Trident XP4m32 graphics controller; 32MB DDR video memory
- External Color Support:
  1280x1024, 1024x768, 800x600; 100Hz Non-Interlaced @ 16M
  1600x1200; 85Hz Non-Interlaced @ 16M
  2048x1536, 1920x1440; 60Hz Non-Interlaced @ 16M

Input Devices

- Keyboard**:** Full sized 85 keys with 12 function keys, 2.7mm key stroke, 6mm height; Dedicated Windows® & Application keys support; HotKey function
- Mouse: Toshiba Dual Pointing Device
- Toshiba Console Button
- Presentation Button

Expandability

- 2 Expansion memory slots (including Main Memory)
- 2 PC Card slots support 2 Type II or 1 Type III PC Cards, PCMCIA R2.01, PC Card16, CardBus
- SD slot

Communications

- Integrated V.92 modem

Due to FCC limitations, speeds of 53kbps are the maximum permissible transmission rates during download. Actual data transmission speeds will vary depending on line conditions.

- Integrated 10/100/1000Base-TX Ethernet**
- Integrated i.LINK (400Mpbs)
- Integrated Fast Infrared (4Mbps)
- Integrated Wi-Fi compliant wireless LAN – 802.11b: Intel or Cisco. 802.11a/b: Atheros
- Optional integrated Bluetooth (v1.1)

Ports

- Parallel port
- Serial Port
- RGB (monitor) port
- 3 Universal Serial Bus (USB) port (v2.0)
- i.LINK (IEEE 1394)
- Infrared port
- S-Video
- 240 pin docking connector
- DVI connector (via Advanced Port Replicator)
- Microphone in
- Headphone out
- RJ-45 LAN port
- RJ-11 modem port

Physical Description

- Dimensions (WxDxH): 12.0" x 10.6" x 1.4/1.5" Weight: 5.7lbs (with 6 cell)
- LED Indicators: DC-In, Power, Primary Battery, Hard Drive, Slim SelectBay, Wireless indicator, SD indicator, Caps Lock, Arrow Lock, Numeric Lock
- Magnesium Alloy case

Sound

- AD1981A software sound
- 16-bit stereo; Built-in stereo speakers, Built-in microphone

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- Direct 3D Sound; DirectSound and DirectMusic; Full Duplex and MIDI support
- Sound Volume Control Dial

Power Supply

- 75W (15V x 5A) Auto sensing external AC Adapter, 100-240V / 50-60Hz frequency (Universal) input.
- 6-cell (4400mAh) or 9-cell (6600mAh), rechargeable, removable Lithium Ion (Li-Ion) battery pack
- Up to 6.7 hours battery life (Normal mode with 9-cell battery)***
- Up to 4.3 hours battery life (Normal Mode with 6-cell battery)***
- Up to 10.8 hours battery life (Normal Mode with 9-cell battery and Slim SelectBay battery)***

Battery life may vary depending on product model, configuration, applications, power management settings and features utilized. 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

Security

- Slot for cable lock; PC Card (by screw and cable lock), HDD, Slim SelectBay and memory (by screw only); User Power-on password, HDD Password, Supervisor Password, Keyboard Lock (by HotKey), Screen Blank (by Hotkey), Screen Saver (by software).

BIOS

- ACPI v1.0B, VESA, DPMS, DDC, SM BIOS v2.3, PC BIOS v2.1 support

Operating System

- Microsoft Windows XP Professional
- Microsoft Windows 2000 Professional

Additional Software

- ConfigFree
- Adobe Acrobat Reader
- Toshiba Custom Utilities
- Electronic User's Guide

Limited Warranty

- 3 year parts, labor and 1 year 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-operating: 10% to 95%
- **Altitude (relative to sea level):** Operating: -60 to 3000 meters; Non-operating: -60 to 10,000 meters
- **Shock:** Operating: 7G; Non-operating: 60G
- **Vibration:** Operating: 0.2G; Non-operating: 1.0G

Accessories

KINGSTON Memory

KTT3614/128	128MB PC2100 DDR SDRAM Memory
KTT3614/256	256MB PC2100 DDR SDRAM Memory
KTT3614/512	512MB PC2100 DDR SDRAM Memory
KTT3614/1G	1GB PC2100 DDR SDRAM Memory

Cases

NWCTM1	Targus Metropolitan Carrying Case (koskin)
NWCSS1	Targus Suburban Carrying Case (nylon)
PA1318U-1NCS	Kenneth Cole 'Sweet Roll' Leather Roller Case

Other Accessories

PA3082U-2PRP	Advanced Port Replicator II w/ 75W AC Adapter**
PA3283U-1ACA	75W Universal AC Adapter
PA3259U-1BRS	Primary Battery (9 cell)
PA3258U-1BRS	Primary Battery (6 cell)
PA3091U-1CHG	Battery Charger
PA3109U-1FDD	USB Floppy Disk Drive
PA3133U-1H40	40GB Hard Disk Drive
PA3204U-1H60	60GB Hard Disk Drive
PA3129U-2BRS	Slim SelectBay Battery
PA3134U-1ETC	Slim SelectBay Hard Drive Adapter
PA3137U-3CD2	Slim SelectBay DVD-ROM/CD-RW
PA3271U-1BTM	Bluetooth SD Card 2
PA3231U-1DV1	Slim SelectBay DVD Multi

Wi-Fi (Agere)

7000011030	AP-2000 (802.11a/b) Access Point

SelectServ Limited Warranty Extensions

SWP-PQGQ3V	3 Year SystemGuard
SWP-PQQX3V	3 Year Depot Express
SWP-PQGX3V	3 Year SystemGuard & Depot Express
SWP-PQQN3V	3 Year Business On-Site Repair, Next Business DayResponse
SWP-PQGN3V	3 Year SystemGuard, Business On-Site Repair & Next Business Day Response

Product/Part Numbers/UPC

Tecra M1 Part number: PT930U-03YCV7 UPC Code: 032017181267
1.6GHz/14.1"XGA/512MB/60GB/DVD-CDRW/Intel802.11b/9cell/WinXP

Tecra M1 Part number: PT930U-03NE37 UPC Code: 032017181243
1.4GHz/14.1"XGA/256MB/40GB/DVD/Intel802.11b/9cell/WinXP

* GB = 1 Billion Bytes
** 1000Base-TX supported on system and/or Advanced Port Replicator II

**** ***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
- 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).

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

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.

Return Policy

TAIS does not accept the return of component parts, or bundled software, which 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.

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***Business Winstone® 2002 BatteryMark™ Version 1.0

These models achieved the battery life times shown using Ziff Davis Media Inc.'s Business Winstone® 2002 BatteryMark™ Version 1.0. These tests were performed without independent verification by the VeriTest testing division of Lionbridge Technologies, Inc. ("VeriTest"). Neither Ziff Davis Media Inc. nor VeriTest makes any representations or warranties as to the results of the tests. Winstone® is a registered trademark and BatteryMark™ is a trademark of Ziff Davis Publishing Holdings Inc. in the U.S. and other countries. Copyright 2002 Ziff Davis Media Inc. All Rights Reserved. All products used in the tests were shipping versions available to the general public. The battery life results were achieved running the Business Winstone® 2002 BatteryMark™ Version 1.0 on the following system parameters. System parameters were set according to Ziff Davis Media Inc.'s recommendations.

Battery Life	Catalog Spec (1st)	6h46m(6600mAh) / 4h36m(4400mAh)
	(1st+2nd)	10h54m(6600mAh+3600mAh) / 8h36m(4400mAh/3600mAh)
	Number of Conditioning Phase	1
	Life Test Run	3

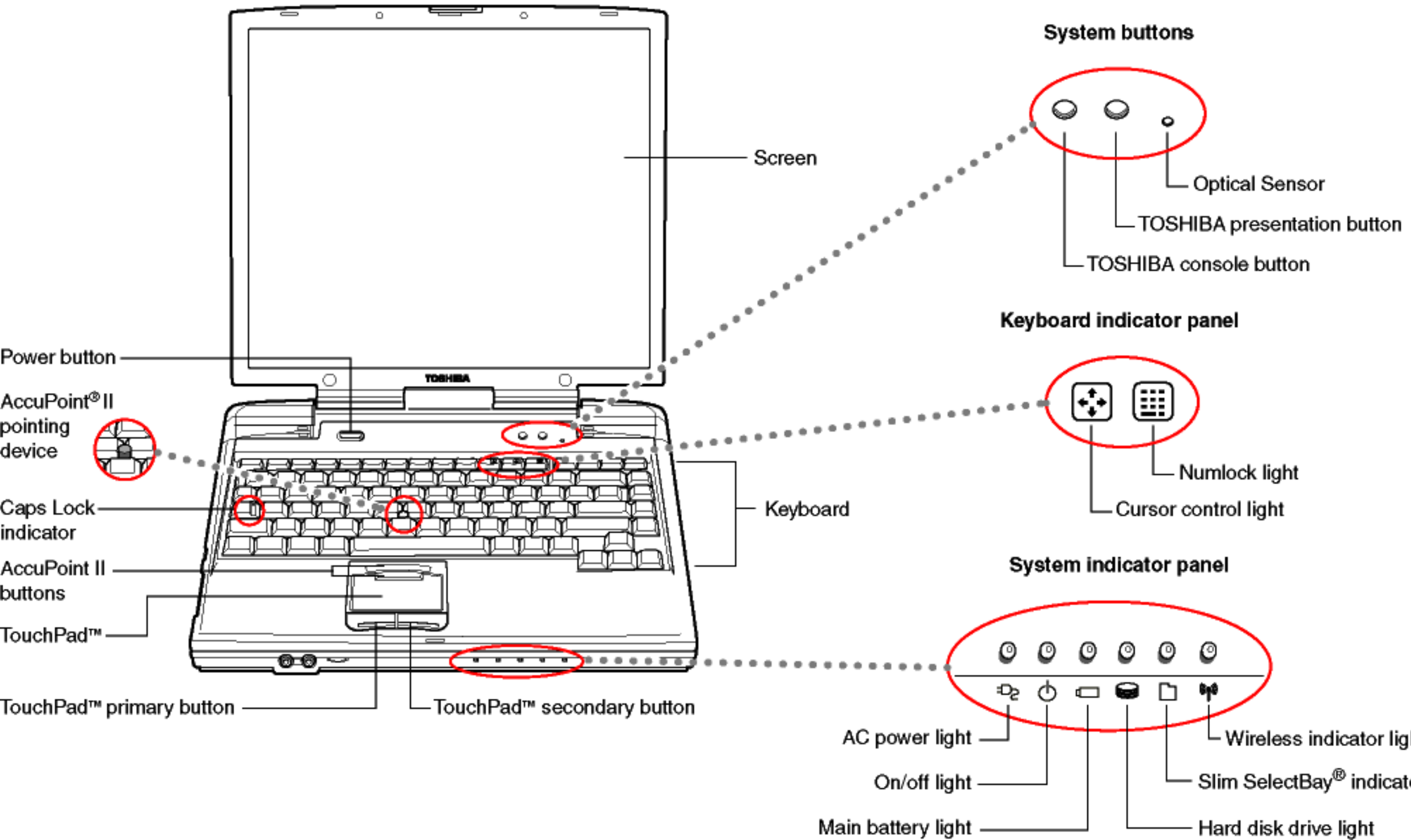
A	Model Name		b) 1.6,14"XGA,512MBx1,60GB(5400rpm),CD-RW/DVD,802.11b(Intel)
	Processor info	speed	1.6GHz
		type	Pentium® M
		number of processors	1
	amount of RAM		512MB
	Amount of secondary RAM cache		2MB (L2 RAM CACHE)
B	Battery	type(1st)	Li-Ion (Graphite)
			10.8V X 6600mAh , 10.8V X 4400mAh
		model number(1st)	PA3259U-1BAS/1BRS, PA3259U-1BAS/1BRS
		type(2nd)	Li-Ion (Graphite)
			10.8V X 3600mAh
		model number(2nd)	PA3129U-2BAS/2BRS
		number of batteries	1st=one,2nd=one

C	Graphics	TridentXP4m32
	amount and type of RAM	32MB
		DDR
	graphics driver name and version	Trident Video Accelerator Cyber-XP4 V6.4811.22ICD
	graphics resolution and color depth, refresh rate	14.1" 1024x768/16bit/60Hz

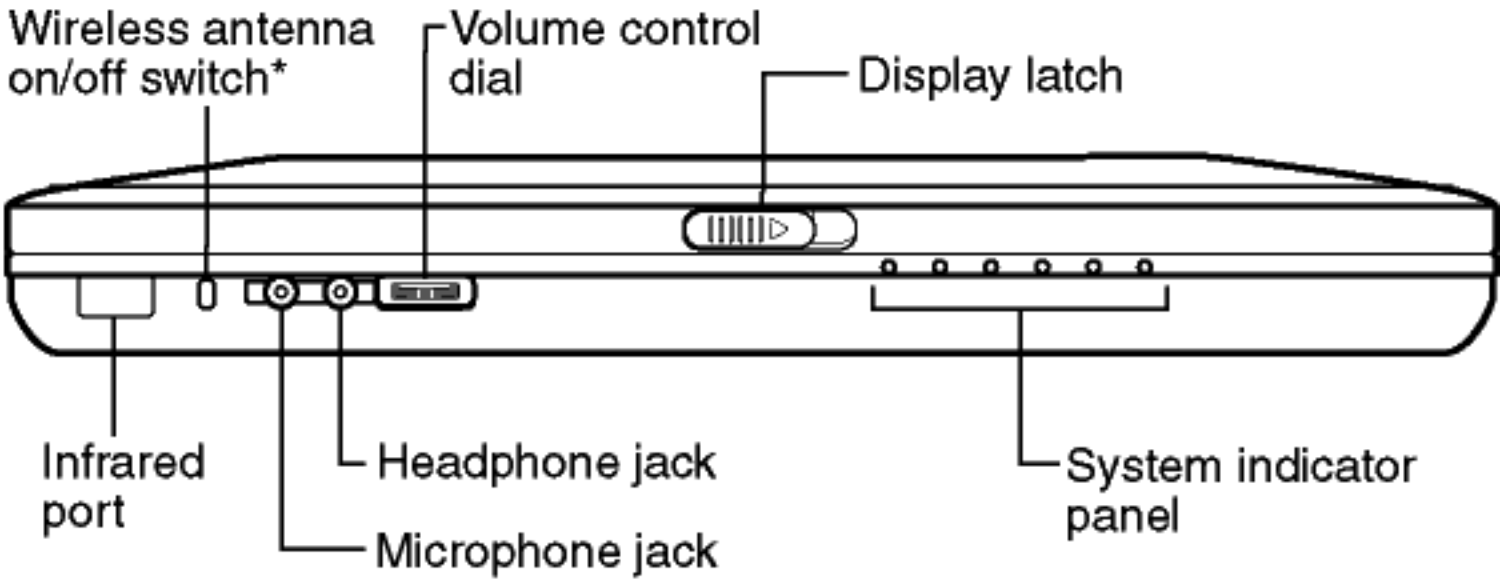
D	hard disk capacity	60GB (5,400rpm)
	hard disk file system & transfer mode	Enhanced IDE (ATA-5)
	hard disk controller model	Intel® 82801DBM Ultra ATA Storage Controller - 24CA
	size of hardware cache if any	N/A

E	operating system version, service pack	Windows XP Professional Version2002 Service Pack 1
	other special conditions	N/A

Front with display open

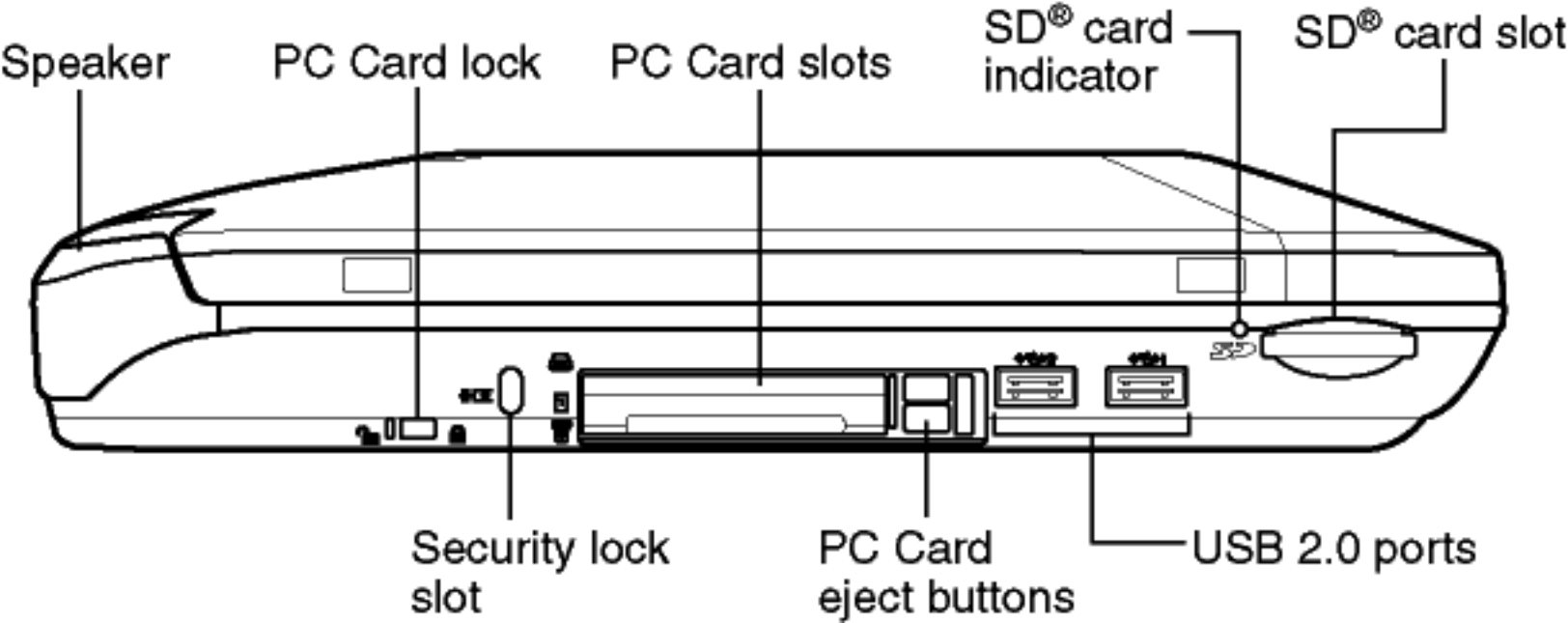


Front with display closed

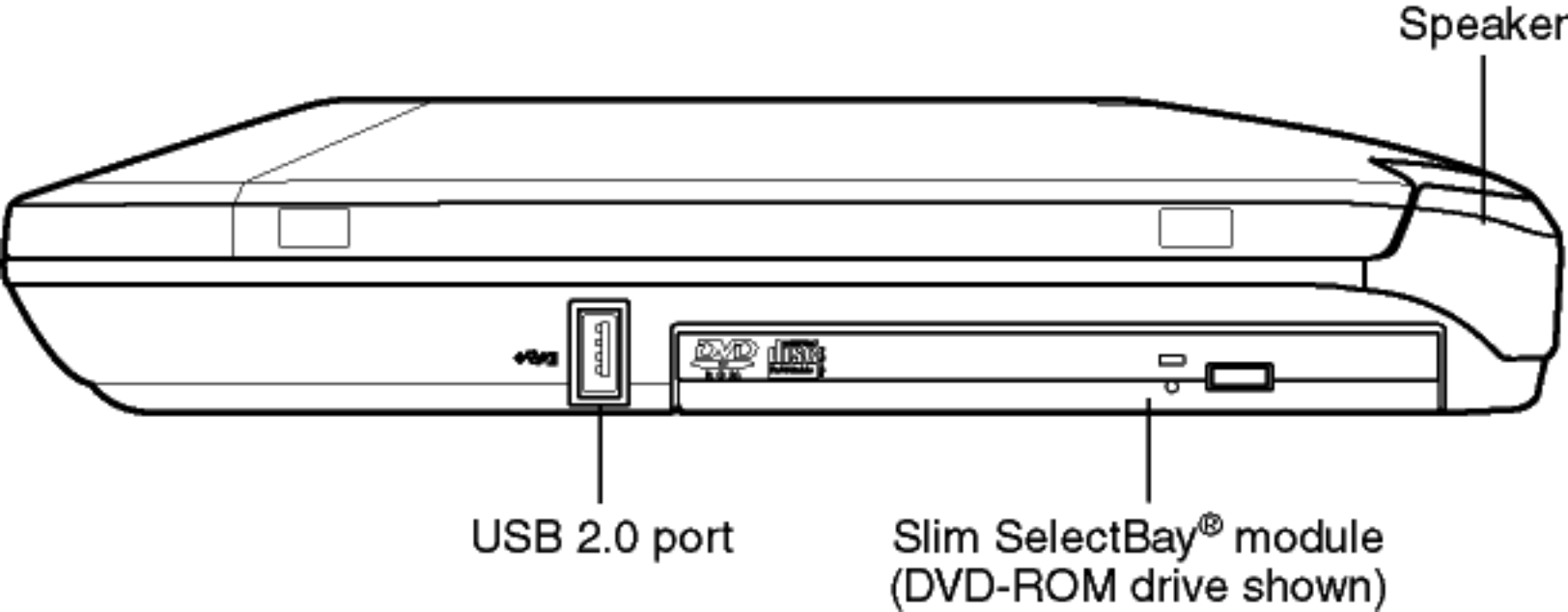


*Functional only on systems with wireless module installed.

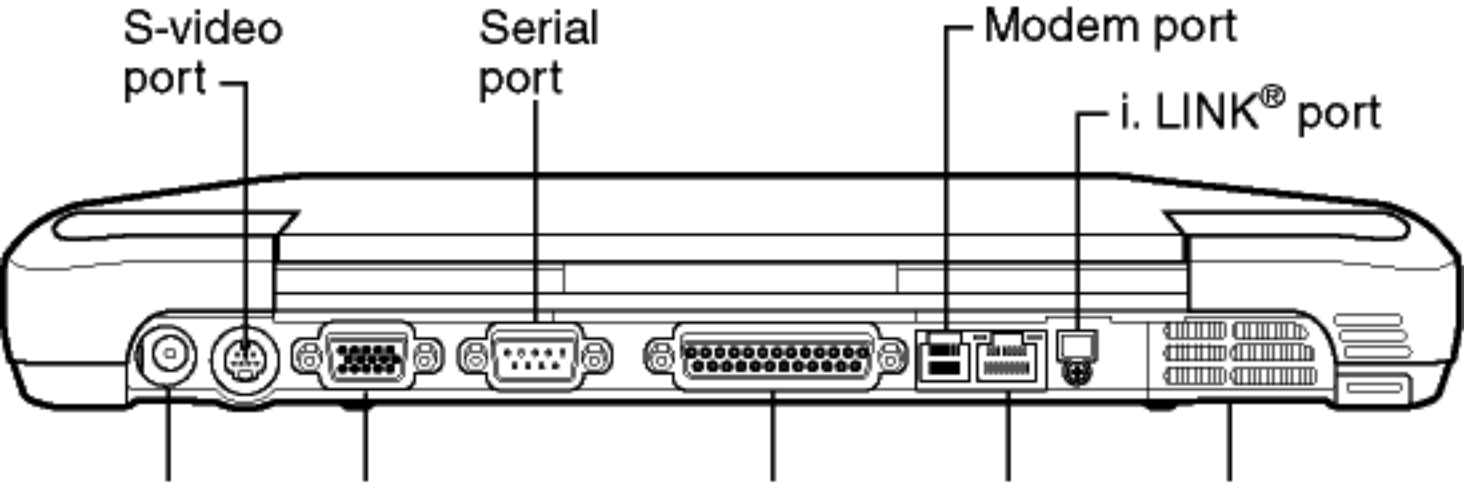
Left side


Speaker
PC Card lock
PC Card slots
SD® card indicator
SD® card slot
Security lock slot
PC Card eject buttons
USB 2.0 ports

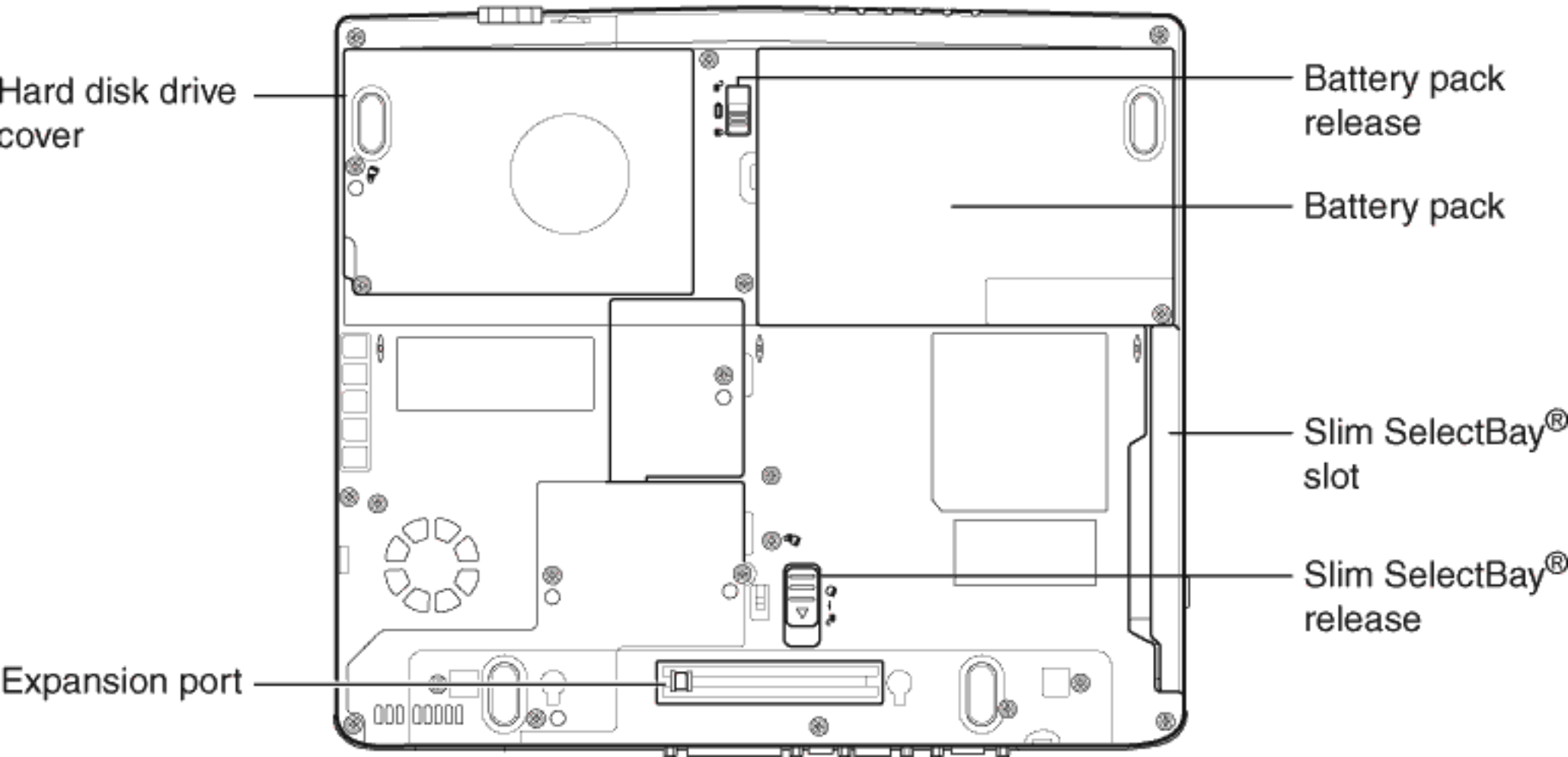
Right side


Speaker
USB 2.0 port
Slim SelectBay® module
(DVD-ROM drive shown)

Back


S-video port
Serial port
Modem port
i. LINK® port
DC IN
RGB (monitor) port
Parallel port
Network port
Cooling vents

Underside


Hard disk drive cover
Battery pack release
Battery pack
Slim SelectBay® slot
Slim SelectBay® release
Expansion port